

# BIOLOGY

FOR Senior Secondary School

Practice Questions and Answers

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Biology Exam Questions and Answers Pack

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# QUESTIONS

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# **TOPIC: ANIMAL NUTRITION**

#### DIRECTION: Choose the correct answer from the lettered options.

1. Animal nutrition involves the study of
A. animal husbandry
B. farm equipment and farm produce
C. food substances and digestive enzymes
D. the teeth and chewing and biting patterns
2. The term ecosystem refers to
A. different groups of green plants in a habitat
B. the relationship between animals and plants in a given environment
C. living organisms interacting with the physical environment
D. members of particular plants and animals living in a habitat
3. The most effective method of dealing with non-biodegradable pollutants is by
<ul><li>3. The most effective method of dealing with non-biodegradable pollutants is by</li><li>A. dumping</li></ul>
·
A. dumping
A. dumping B. recycling
A. dumping B. recycling C. incineration
A. dumping B. recycling C. incineration D. burying
A. dumping B. recycling C. incineration D. burying  4 Which of the following is not a factor responsible for population sizes?
A. dumping B. recycling C. incineration D. burying  4 Which of the following is not a factor responsible for population sizes? A. Nativity

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- 5. Which of these organisms is both holozoic and autotrophic?
- A. Spirogyra
- B. Paramecium
- C. Euglena
- D. Amoeba
- 6. Euglena may be classified as a plant because it \_\_\_\_\_.
- A. has chloroplasts
- B. has a gullet
- C. lives in a pond
- D. possesses a flagellum
- 7. The following agencies are responsible for conservation in Nigeria except
- A. Forestry Departments
- B. Nigerian Conservation Society
- C. Games Reserve Authority
- D. Red Cross Society
- 8. Which of the following effects would desertification have on the ecological balance represented in the diagram?



- A. 10 x 10<sup>4</sup> K cal obtained from the sun would decrease.
- B. 10 x 10<sup>4</sup> K cal obtained from the sun would increase.

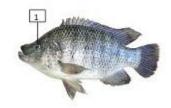
C. 6 x 10 <sup>4</sup> K cal obtained at level I would decrease.
D. 3.5 x 10 <sup>4</sup> K cal obtained at level II would increase.
9. Sucrose is found in
A. coconut water
B. sugar cane
C. malted beans
D. beef
10. One of the ecological conditions which favors the spread of malaria is
A. proper disposal of decaying organic matter
B. cleaning bushes around houses
C. presence of water weeds
D. presence of stagnant water
11. A habitat with low rainfall, very low humidity, and exposed soil with little plant cover, few trees and shrubs is likely to be
A. a rain forest
B. a mangrove forest
C. a desert
D. a swamp
12. Which of the following is not correct about a living cell?
A. The basic unit of a living organism is the cell.
B. All living organisms are either single or groups of cell(s).
C. All the cells in an organism are the same.
D. There is no life apart from the life in cells.

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- 13. Which of the following is an organelle directly involved in cell division in animals?
- A. Cytoplasm
- B. Centrioles
- C. Mitochondria
- D. Cell wall

Look at the diagram carefully and answer the question correctly.

14. What is the name of the part labelled 1?



- A. Eye
- B. Nostrils
- C. Gills
- D. Mouth
- 15. The \_\_\_\_ is vestigial in humans but functional in other mammals.
- A. liver
- B. appendix
- C. rectum
- D. stomach
- 16. Which of these plant kingdoms have roots, stems or leaves?
- A. Spermatophyte
- B. Pteridophyta
- C. Schizophyta
- D. Thallophytic

17	are also classified as seed-bearing flowering plants.
A. Spermatoph	nytes
B. Schizophyta	a
C. Thallophyta	
D. Bryophyta	
18 The following	ng are examples of schizophyta except
A. bacteria	
B. viruses	
C. nostoc	
D. lichens	
19. During com	nbustion, carbon is oxidized to
A. carbon (iv)	oxide
B. trioxocarbo	nate iv
C. oxygen	
D. nitrogen	
20. Possessio	n of strong adhesives is a feature of animals living in
A. sandy beac	hes
B. rocky chore	es ·
C. benthic zon	nes
D. deserts	
21	is an organic catalyst that promotes or speeds up chemical changes
in living cells.	
A. A promoter	
B A chemical	

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C. An enzyme
D. A parasite
22. Lack of in the body causes pellagra.
A. iodine
B. vitamin C
C. protein
D. niacin
23. The following are various modes of nutrition in heterotrophic organisms except mode of nutrition.
A. parasitic
B. halophytic
C. saprophytic
D. symbiotic
24. What is condensation?
A. It is the combustion of molecules.
B. It is the change of the physical state of matter from gaseous phase into liquid phase.
C. It is the condensation of molecules from scanty form to a more confined form.
D. It is the use of sieve to filter rough substances away from smooth substances.
25. All kinds of food eaten by animals can be divided into groups of food substances.
A. eight
B. ten
C. two
D. six

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26 consist of indigestible fibrous materials derived from vegetables, fruits and proteins.
A. Roughages
B. Roughs
C. Roughton
D. Rough
27. Which of the following is not a test for protein?
A. Million's test
B. Biuret's test
C. Benedict's test
D. Xanthoproteic test
28 is a mode of nutrition where certain bacteria are able to manufacture their food as they synthesise organic compounds from simple inorganic materials.
A. Endoparasitic mode
B. Ectoparasitic mode
C. Chemosynthetic mode
D. Parasitic mode
29. The product of the action of erepsin on peptone is
A. maltose
B. glycerol
C. amino acid
D. glucose
30. How do you test for carbohydrate?
A. Mix equal amount of glucose and Fehling's solution in a test tube and place it in a boiling water bath.

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B. Mix equal amount of sugar and Benedict's solution in a test tube and pour it in a boiling water.
C. Mix sucrose and Fehling's solution and put it in the fridge.
D. Mix carbohydrates and water and put it in fridge.
31. Foods that largely contain are energy giving foods.
A. carbohydrates
B. water
C. protein
D. mineral salts
32. It is important to eat balanced diet in order to
A. stay healthy
B. sleep well
C. work hard
D. grow tall
33. What is a balanced diet?
A. It is a diet that contains the correct proportions of proteins and carbohydrates.
B. It is a diet that contains the right amount of all six classes of food substances.
C. It is a diet that contains mineral salts, proteins, carbohydrates and fibres in their appropriate amount.
D. They contain majorly carbohydrate food substance.
34. Which of the following is not a characteristic of enzymes?
A. They are soluble.
B. They are protein.
C. They are lipids.
D. They are specific.

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35. Which of the following is not a B vitamin?
A. Niacin
B. Riboflavin
C. Thiamine
D. Calciferol
36. Which of the following is not an example of a monosaccharide?
A. Glucose
B. Lactose
C. Fructose
D. Ribose
37. Starch can be gotten from all of the following except
A. potato
B. tapioca
C. millet
D. peas
38. Omnivorous animals feed on both and
A. fresh, live animals
B. plants, leaves
C. plants, animals
D. milk, animals
39. What are the components of carbohydrate?
A. Protein, carbon and oxygen
B. Carbon, hydrogen and oxygen
b. Carbon, nydrogen and oxygen

C. Minerals, salt and fibre
D. Carbondioxide, oxygen and vitamins
40. Mucus is composed of
A. protein, carbohydrate and sulphur
B. salt and fibre
C. fibre and carbohydrate
D. muchin, cells, water and inorganic salts
41. Monosaccharide's, disaccharides and polysaccharides are classifications of
A. mineral salts
B. protein
C. fats and oils
D. carbohydrates
42. Water forms about of man's body.
A. 75%
B. 85%
C. 50%
D. 65%
43. Sucrose is found in
A. coconut water
B. sugar cane
C. malted beans
D. beef

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44. The condensation of two simple sugar molecules form a
A. complex sugar
B. complicated sugar
C. combusted sugar
D. contaminated sugar
45. Ptyalin is an enzyme that acts on
A. protein
B. fats and oils
C. cooked starch
D. peptones
46. What colour will a boiled starch solution turn into when a few drops of iodine solution is added to it?
A. Red
A. Red B. Black pure
B. Black pure
B. Black pure C. Blue-black
B. Black pure C. Blue-black
B. Black pure C. Blue-black D. Reddish
<ul><li>B. Black pure</li><li>C. Blue-black</li><li>D. Reddish</li><li>47. How do you test for oil and fat?</li></ul>
<ul> <li>B. Black pure</li> <li>C. Blue-black</li> <li>D. Reddish</li> <li>47. How do you test for oil and fat?</li> <li>A. By dropping oil on a spot on a filter paper; the drop becomes more translucent.</li> <li>B. By mixing oil in water and allowing it to settle down; subsequently draining off the</li> </ul>
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B. autotrophs
C. manual
D. heterophy
49. Which of the following does not take part in the formation of teeth and bone?
A. Calcium
B. Potassium
C. Phosphorus
D. Fluorine
50. Which of the following nutrients is known as welfare nutrient?
A. Mineral salts and vitamins
B. Proteins and fats
C. Fibre and fats
D. Salts and fibre
51. Excess carbohydrate in human is converted to
A. sugar
B. protein
C. fat
D. vitamin

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# **TOPIC: BASIC ECOLOGICAL CONCEPTS**

# DIRECTION: Choose the correct answer from the lettered options.

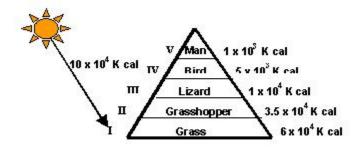
1. Possession of strong adhesives is a feature of animals living in
A. sandy beaches
B. rocky chores
C. benthic zones
D. deserts
2. Water loss is most rapid in soil.
A. sandy
B. clayey
C. sandy-loam
D. loamy
3. An acidic soil can be improved upon by
A. sedimentation
B. leaching
C. flocculation
D. watering
4. Which of the following resources is non-renewable?
A. Forest
B. Wildlife
C. Mineral deposits
D. Water

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5. The similarity among organisms belonging to the same group will be least within each
A. family
B. order
C. kingdom
D. species
6. An environment could be defined as the
A. solid crust of the earth
B. part of the earth in which life exist
C. surrounding of an organism
D. First and lowest layer closest to the soil
7. Energy exists in major forms.
A. 3
B. 2
C. 4
D. 5
8. A bacteria cell differs from eukaryotic cell because they have
A. cell wall
B. nuclear membrane
C. nuclear material
D. cell membrane
9. Desert plants are usually called
A. hydrophytes
B. mesophytes

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- C. xerophytes
- D. saprophytes
- 10. Transpiration in plants results in the \_\_\_\_.
- A. closure of the stomata at night
- B. continuous streaming of water through the plant
- C. pale, green colouration of portions of the leaves
- D. opening of stoma
- 11. What is ecology?
- A. It is the study of plants and animals in relation to their environment.
- B. It is the study of the human digestive system in relation to the environment.
- C. It is the study of plants.
- D. It is the study of plants and animal harvesting.
- 12. The abiotic factor which determines the depth to which light penetrates into a pond is \_\_\_\_\_.
- A. current
- B. turbidity
- C. wind
- D. salinity
- 13. Which of the following effects would desertification have on the ecological balance represented in the diagram?



A. 10 x 104 K cal obtained from the sun would decrease.
B. 10 x 104 K cal obtained from the sun would increase.
C. 6 x 104 K Cal obtained at level I would decrease.
D. 3.5 x 104 K Cal obtained at level II would increase.
14. A secchi disc is used in the determination of
A. rainfall
B. tides
C. waves
D. turbidity
15. Due to food shortage, the following are factors that cause decrease in the population size except
A. natality
B. competition
C. emigration
D. mortality
16. A bacteria cell differs from eukaryotic cell because they have
A. cell wall
B. nuclear membrane
C. nuclear material
D. cell membrane
17. Which of the following organisms causes syphilis?
A. Mycobacterium tuberculosis
B. Bordetella pertussis

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C. Treponema pallidum
D. Clostridium tetani
18. The earth's major source of energy is the
A. stars
B. sun
C. moon
D. heat
19. Which of these diseases is not caused by bacteria
A. malaria
B. tuberculosis
C. pneumonia
D. tetanus
20. Possession of strong adhesives is a feature of animals living in
A. sandy beaches
B. rocky chores
C. benthic zones
D. deserts
21. There are types of ecological pyramids.
A. 4
B. 5
C. 3
D. 2

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22. An association between the root nodules of a leguminous plant and rhizobium species, is known as
A. commensalisms
B. saprophytism
C. parasitism
D. symbiosis
23. The word ecology is derived from the word
A. oikas
B. oekis
C. oikos
D. aikis
24 is a plant which grows on another plant without apparent harm to the host plant.
A. A parasite
B. An epiphyte
C. A saprophyte
D. A predator
25. The conservation of natural resources can be achieved by the following except through
A. creation of national parks
B. formation of conservation societies and agencies
C. establishment of game reserves
D. regular deforestation

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26. The presence of prop roots and breathing roots are features of plants found in the
A. tropical rain forest
B. fresh water swamp forest
C. mangrove forest
D. northern guinea savannah
27 has the highest water-retaining capacity.
A. Clay
B. Laterite
C. Loam
D. Gravel
28. Which of the following insects has an incomplete metamorphosis during its life cycle?
A. Butterfly
B. Mosquito
C. Housefly
D. Grasshopper
29. Which one of the following diseases can be prevented by inoculation?
A. Syphilis
B. Cancer of the liver
C. Tuberculosis
D. Acquired Immune Deficiency Syndrome (AIDS)
30. A group of interacting populations in a particular habitat is referred to as
A. ecological niche

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B. biotic community
C. population
D. habitat
31. A stable self-sustaining environment produced by an interaction between the biotic and abiotic components is best described as
A. a niche
B. a community
C. an ecosystem
D. a habitat
32. A constituent of the exhaust gases of motor vehicles which causes serious air pollution is
A. water vapour
B. carbon monoxide
C. oxygen
D. ozone
33. Which of the following is the least adaptive feature for arboreal life?
A. Possession of four limbs
B. Possession of claws
C. Development of a long tail
D. Counter shading of coat colour
34. In a food chain, each stage in the chain is a
A. chain level
B. web level
C. consumption level
D. trophic level

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35	_ zone is not one of the major ecological zones of a marine habitat.		
A. Splash			
B. Wave	B. Wave		
C. Benthic			
D. Intertidal			
36. The amo	unt of energy contained in different types of food is expressed in		
A. joules			
B. kilogramm	200		
C. kilojoules			
D. grammes			
D. grannines			
37. Which of the following will have the least effect on the rate of change of the number of species in a population?			
A. Food supp	ply		
B. Mutation			
C. Predation			
D. Disease			
38. Which of	the following ecological factors causes food shortage?		
A. Low rate of	of reproduction		
B. Emigration			
C. Drought			
D. Topography			
39. Which of	the following does not reduce air pollution?		
A. Siting fact	tories and power stations away from residential areas.		

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B. Recycling tins, cans and bottles.
C. Passing waste gasses through filters and absorbers.
D. Using lead-free petrol in cars.
40. Terrestrial organisms, which are capable of keeping their body temperature constant within fairly close limits, are referred to as
A. thermoclines
B. homotherms
C. poikilotherms
D. eurytherms
41. The non-living part of an ecosystem is known as its
A. biotic component
B. trophic level
C. abiotic component
D. biomes
42. Which of the following is not a type of pyramid?
A. Pyramid of numbers
B. Pyramid of energy
C. Pyramid of biomass
D. Pyramid of food web
43. Which one of the following is not a fresh water habitat?
A. Ponds
B. Rivers
C. Lakes
D. Seas

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44. Competition among individuals of a population decreases the
A. number of organisms
B. survival of the fittest
C. availability of nutrient supplied
D. enlargement of the territory
45. Sewage must be properly disposed to
A. avoid the smell that causes infection in people
B. spread gastro-intestinal diseases
C. prevent the out-break of water-borne diseases
D. create space for subsequent waste produced
46. The condition that encourages denitrification is
A. low soil oxygen
B. high soil nitrogen
C. absence of soil bacteria
D. lightning and thunderstorm
47. Which of the following major world biomes is found in Nigeria?
A. Sahel savanna
B. Tundra
C. Desert
D. Afro-alpine vegetation
48. The loss of water vapour through the aerial parts of the plant to the atmosphere is called
A. respiration
B. guttation

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C. osmoregulation
D. transpiration
49. Autecology is concerned with the study of
A. a group of organisms and their environment
B. a single organism and its activities in different environment
C. an individual organism and its environment
D. multicellular organisms and their interaction with one another
50. Fishes cannot survive on land because they have
A. bodies covered with scales
B. streamlined bodies
C. no lungs
D. no walking appendages
51. Bacteria and are commonly responsible for the decay of dead plants and animals.
A. viruses
B. fungi
C. earthworms
D. yeasts
52. Which of the ways of controlling bilharzias can result in pollution?
A. Clearing water weeds on which the snails feed.
B. Treating infected people with drugs.
C. Preventing contamination of water by infected urine and faeces.
D. Applying chemicals to kill them.

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53. The abiotic factor which determines the depth to which light penetrates into a pond is
A. current
B. turbidity
C. wind
D. salinity
54 is associated with aquatic habitats.
A. Temperature
B. Light intensity
C. Turbidity
D. All of the above
55. One distinctive feature in the life cycle of ulva is that they exhibit
A. alternation of generations
B. vegetative reproduction
C. asexual reproduction
D. sexual reproduction
56. Which group is involved in the water cycle?
A. Evaporation, transpiration and precipitation
B. Evaporation, photosynthesis and transpiration
C. Evaporation, burning and precipitation
D. Evaporation, volcanic action and transpiration
57. Pneumatophores are essential for
A. nutrition
B. movement

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C. breathing
D. growth
58. Which of the following is not a behavioral adaptation used by social animals?
A. Hibernation
B. Mimicry
C. Migration
D. Aestivation
59. Which one of the following options is the most important pollutant of the marine environment in Nigeria?
A. Insecticides
B. Sewage
C. Oil spill
D. Inorganic fertilizers
60. The law of thermodynamics states that in any conversion of energy from one form to another, there is always a decrease in the amount of usefu energy.
A. second
B. first
C. Third
D. fourth
61. The study of the organisms and environment of an abandoned farmland is the ecology of
A. an ecosystem
B. a population
C. a species
D. a habitat

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62. Water loss is most rapid in soil.
A. sandy
B. clayey
C. sandy-loam
D. loamy
63. The gas produced during decomposition of matter is
A. hydrogen sulphide
B. carbon monoxide
C. chlorine
D. oxygen
64. Which sequence represents the correct order of organisms in a food chain?
A. Toad
B. Mucuna
C. Grasshopper
D. Snake
65. Energy exists in major forms.
A. 3
B. 2
C. 4
D. 5
66. Which of these instruments can be used to perform an experiment on geotropism?
A. Potentiometer
B. Cup anemometer

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C. Klinostat
D. Kymograph
67. Desert plants are usually called
A. hydrophytes
B. mesophytes
C. xerophytes
D. saprophytes
68. Micro-organisms are used in the production of
A. fossil fuels
B. culture media
C. antibiotics
D. minerals
69. Which of the following is not an example of a free living nitrogen bacteria?
A. Azotobacter
B. Clostridium
C. Nostoc
D. Nitrosomonas
70. Forest conservation includes the following except
A. prevention of bush-fires
B. extensive felling of forest-trees
C. replacing harvested trees by planting seedling
D. selective exploitation of forest trees

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71. Which of the following factors is not associated with aquatic habitats?
A. Salinity
B. Turbidity
C. Temperature
D. Edaphic
72 energy is derived from chemical energy during cellular respiration.
A. Heat
B. Sound
C. Electrical
D. Mechanical
73. Which of the following is an effect of water pollution?
A. Hepatitis
B. Cancer
C. Tuberculosis
D. AIDS
74. Which one of the following is not a major component of fertilizer?
A. Nitrogen
B. Phosphorus
C. Magnesium
D. Potassium
75. Which one of the following gases is not produced by automobiles?
A. Nitrogen monoxide
B. Nitrogen dioxide

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C. Nitric acid
D. Carbon dioxide
76. The most effective method of dealing with non-biodegradable pollutants is by
A. dumping
B. recycling
C. incineration
D. burying
78 is often described as environmental biology.
A. Ecosystem
B. Ecology
C. Ecological
D. Ecologist
79. In a savanna ecosystem, the abiotic factors include
A. sun, temperature and sandy soil
B. water, temperature and soil
C. minerals, oxygen and crude
D. water, soil and grasses
80. In a food chain, each succeeding level in a forward direction represents
A. an increase in the number of individuals
B. a decrease in the number of individuals
C. an increase in the biomass of individuals
D. a gain in the total energy being transferred

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81. Which of the following instrument is used to measure the speed of a stream?
A. Simple float
B. Secchi disc
C. Quadrant frame
D. Rain gauge
82. All the available places on earth which support life constitute the
A. lithosphere
B. atmosphere
C. biosphere
D. hydrosphere
83. Transparency of water is measured using a
A. secchi disc
B. whirling hygrometer
C. hydrometer
D. wind vane
84. Which of these has the most complex level of organization?
A. Euglena
B. Hydra
C. Heart
D. Virus
85. Which of the following is used for the collection of small insects from soil, leaf litter and crevices?
A. Pooter
B. Quadrant

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C. Sweep net
D. Drag net
86. Denitrification is defined as the process of
A. breakdown of nitrogen in the atmosphere
B. addition of nitrogen to the soil
C. returning nitrogen into the atmosphere
D. removal of nitrogen from the atmosphere
87. The most important environmental factor which epiphytes in the rain forest compete for is
A. water
B. nutrient
C. light
D. space
88. Which of the following instruments is not used in measuring abiotic factors in any habitat?
A. Microscope
B. Thermometer
C. Hygrometer
D. Wind vane
89. In an ecosystem the organism which changes light energy into stored chemical energy is the
A. consumer
B. decomposer
C. producer
D. carnivore

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90. Which of the following accurately represents an aquatic food chain?
A. Paramecium phytoplankton prawn water flea tilapia shark.
B. Water flea Paramecium phytoplankton prawn tilapia shark.
C. Phytoplankton water flea Paramecium prawn shark tilapia.
D. Phytoplankton Paramecium water flea prawn tilapia shark.
91. Rabbits cannot survive in an aquatic habitat because they have
A. fore-and hind-limbs
B. no gills
C. no eye spot
D. no scales
92. Which of the following resources is non-renewable?
A. Forest
B. Wildlife
C. Mineral deposits
D. Water
93. An acidic soil can be improved upon by
A. sedimentation
B. leaching
C. flocculation
D. watering
94. The change of colour by a chameleon to that of the environment is an example of
A. animal pretense
B. protective colouration

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C. mimicry
D. warning colouration
95. During combustion, carbon is oxidized to
A. carbon (iv) oxide
B. trioxocarbonate iv
C. oxygen
D. nitrogen
96. Abiotic components include all except
A. fish
B. water
C. heat
D. pressure
97. The major functional unit of an ecosystem is the
A. total energy flowing through the ecosystem
B. population
C. productivity
D. trophic level
98. A represents changes in energy flow between organisms in a habitat.
A. pyramid of biomass
B. pyramid of numbers
C. pyramid of energy
D. food chain

known as
A. chlorofluorocarbons
B. chlorofluorocarbons
C. fluorocarbons
D. chlorocarbons
100. Ecological succession ends with the formation of a stable
A. niche
B. population
C. pioneer community
D. climax community
101. Which of the following processes will not introduce carbon dioxide into the atmosphere?
A. Breathing
B. Photosynthesis
C. Respiration
D. Putrefaction
102. Which of the following statements best explains the term aestivation?
A behavioural pattern of animals involving spending the hot dry season in a sleep-like, torpid state.
B. A behavioural pattern of animals involving long journeys from one place to another.
C. A behavioural pattern of animals involving spending the winter in a sleep-like, inactive, torpid state.
D. A behavioural pattern of animals involving scaring off predators.

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103. A habitat with low rainfall, very low humidity, and exposed soil with little plant cover, few trees and shrubs is likely to be
A. a rain forest
B. a mangrove forest
C. a desert
D. a swamp
104. A population is best described as
A. a group of the same species of organisms living together
B. a group of animals and plants living together
C. a group of insect and grasses
D. different species of wild animals
105. Which of the following is not a way of reducing air pollution?
A. Siting factories and power stations away from residential areas
B. Recycling tins, cans and bottles
C. Passing waste gases through filters and absorbers
D. Using lead-free petrol in cars
106. The following are carbon cycling processes except
A. combustion
B. decay
C. transpiration
D. respiration
107 is the study of interactions of organisms with their physical environment and with each other.
A. Ecology

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B. Biosphere
C. Lithosphere
D. Atmosphere
108. Northern guinea savanna is associated with
A. abundant rainfall
B. abundant trees and shrubs
C. soil with very little plant cover
D. abundant grasses
109. Which of the following helps a hydrophyte such as the water lily solve the problem of buoyancy?
A. Long stems and flower stalks
B. Dissected leaves
C. Thick cuticles
D. Large, well-developed airspaces
110. The following conditions form the basis of competition in a habitat except
A. food
B. body structure
C. reproductive mate
D. light
111. What is ecology?
A. It is the study of plants and animals in relation to their environment.
B. It is the study of the human digestive system in relation to the environment.

C. It is the study of plants.

D. It is the study of plants and animal harvesting.

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habitat?
A. Temperature
B. Sunlight
C. Humidity
D. Turbidity
113. Viruses are pathogens of the following diseases except
A. measles
B. smallpox
C. poliomyelitis
D. tuberculosis
114. Trees in savannah habitats usually have heavy thick bark which mainly
A made and the mate of the manifestion
A. reduces the rate of transpiration
B. protect them from the scorching sun
C. protect them from heavy winds
D. resist bush fires
115. A certain savannah grasshopper changes colour from green during the rainy season; to brown, during the dry season; and black after the dry season bush fires. The reason for these colour changes is that the
A. grasshopper is getting older
B. environmental temperature is changing
C. grasshopper is avoiding predators
D. is frequently moulting

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116. Which of the following is transmitted through mosquito bites?
A. Filariasis
B. Typhus
C. Plague
D. Schistosomiasis
117. The similarity among organisms belonging to the same group will be least within each
A. family
B. order
C. kingdom
D. species
118. Which one of the following is not a characteristic of fresh water habitat?
A. Low salinity
B. Low oxygen concentration
C. Limited size and depth
D. Variation in temperature
119. Ecology is best defined as the study of
A. the characteristics of living organisms in an environment
B. the inter-relationship between living organisms and their environment
C. the interaction that occurs between the molecules that make up living organisms
D. habitats and wildlife
120. Which of the following may not contribute to environmental pollution?
A. Recycled water
B. Industrial waste

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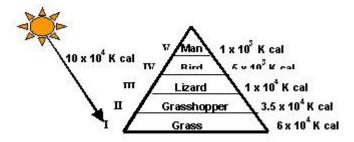
C. Waste disposal
D. Smoke
121. Which of the following organisms can be found in fresh water habitat?
A. Sargassum and dogfish
B. Red mangrove and pond skater
C. Sargassum and red mangrove
D. Spirogyra and pond skater
122. Which of the following spreads malaria in Nigeria?
A. Anopheles mosquito
B. Culex mosquito
C. Tse-tse fly
D. Housefly
123. The adaptations for water conservation in plants include the following except
<del>.</del>
A. scales in fishes
B. scales on leaves
C. thick cuticle
D. spine
124. There are types of food chain.
A. 1
B. 3
C. 2
D. 4

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125. Which of the following takes place when a person's body temperature rises above 370C?
A. Sweating and vasoconstriction
B. Panting and vasoconstriction
C. Sweating and vasodilation
D. Panting and vasodilation
126. Which of the following is not a factor responsible for population sizes?
A. Natality
B. Feeding
C. Immigration
D. Mortality
127. The unidirectional movements of water is called
A. water current
B. tides
C. waves
D. erosion
128. A relationship in which one of the organism benefits while the other neither benefits nor is harmed is known as
A. co-operation
B. commensalism
C. mutualism
D. saprophytism
129. Which one of the following is not an ecological factor to all habitats?
A. Oxygen
B. Light

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- C. Salt
- D. Wind
- 130. What phenomenon in the ecosystem does the diagram illustrate?



- A. Pyramid of numbers
- B. Food web among organisms
- C. Pyramid of energy
- D. Pyramid of biomass

## **TOPIC: CLASSIFICATION OF LIVING THINGS**

DIRECTION: Choose the correct answer from the lettered options.

1. Living things compete for all except
A. offspring
B. water
C. space
D. mate
2. Which of the following is incorrect about auxins?
A. They are manufactured by plants.
B. They are used at the site of production.
C. They are normally present in minute quantities in the cells of plants.
D. They regulate growth rate in plants.
3. The exoskeleton of arthropoda is made of
3. The exoskeleton of arthropoda is made of  A. chitin
A. chitin
A. chitin  B. cartilage
A. chitin B. cartilage C. xylem
A. chitin B. cartilage C. xylem
A. chitin  B. cartilage  C. xylem  D. bones
A. chitin  B. cartilage  C. xylem  D. bones  4. Which of the following are types of kingdoms?
A. chitin B. cartilage C. xylem D. bones  4. Which of the following are types of kingdoms? A. Kingdom monera

D. All of the above

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5. Which is the correct animal classification?
A. Kingdom-Division-Order-Class-Family-Genus-Species
B. Kingdom-Phylum-Class-Order-Family-Genus-Species
C. Kingdom-Division-Class-Order-Family-Genus-Species
D. Kingdom-Phylum-Family-Class-Order-Genus-Species
6. All are examples of fungi except
A. Mushroom
B. Rhizopus
C. Mucor
D. Lichens
7 provides the basis for growth of organisms.
A. Food
B. Light
C. Water
D. Good environment
8 is defined as a systematic process of making enquiry about living and non-living things in our environment.
A. Science
B. Biology
C. Research
D. Experiment
9. Which of these Platyhelminthes is free living?
A. Planarian
B. Tapeworm

C. Liver fluke
D. Blood fluke
10. The following are examples of schizophyta except
A. bacteria
B. viruses
C. nostoc
D. lichens
11. How many classes does the plant kingdom, spermatophyte have?
A. 1
B. 2
C. 3
D. 4
12. Spiders, mites, scorpions and ticks are examples of
A.Insecta
B. Arachnida
C. Crustaceans
D. Myriapoda
13. The characteristic "irritability" can also be called
A. irritation
B. sensation
C. infection
D. sensitivity

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14. Food in plants is stored mainly as
A. glycogen
B. fat
C. fibre
D. starch
15. Biology is basically grouped into how many main branches?
A. 2
B. 3
C. 4
D. 5
16. Biology can simply be defined as the
A. study of science
B. study of life
C. characteristics of life
D. all of the above
17. Which of these organisms is both holozoic and autotrophic?
A. Spirogyra
B. Paramecium
C. Euglena
D. Amoeba
18. A virus can sometimes be regarded as a living organism because it
A. causes disease in plants and animals
B. exists in a variety of shapes

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C. reproduces in living cells
D. is easily visible with the aid of an electron microscope
19. Which of these is not a characteristic of animals?
A. Food is stored mainly as glycogen and fat.
B. Their cells have large vacuoles.
C. They possess well developed excretory system.
D. Their cells have thin flexible living cell membrane.
20. The body of arthropoda are divided into
A. head, stomach and abdomen
B. head, thorax and abdomen
C. head, abdomen and leg
D. front, back and middle
21. The system of classification of living things was introduced by
A. Carolus Linnaeus
B. Carolus Kent
C. Richard Van der Hoff
D. Linus Linnaeus
22. Which of these presentations is incorrect?
A. Homo sapiens
B. Panthra Leo
C. Rattus rattus
D. Zea Mays

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23. The group Mollusca is characterized by the presence of
A. jointed appendages
B. star-shaped bodies
C. backbones
D. soft, unsegmented bodies
24 is the largest phylum in the animal kingdom?
A. Mollusca
B. Mammalia
C. Arthropoda
D. Protozoa
25. Which of the following is not a characteristic of living things?
A. Nutrition
B. Movement
C. Sleeping
D. Growth
26. Science can be applied to all areas of life.
A. True
B. False
27. In binomial nomenclature, the first name is usually the
A. kingdomic name
B. generic name
C. classic name
D. specific name

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28. A theory can be called a law when
A. a reasonable explanation has been derived for an observation
B. the hypothesis is true
C. it has been extensively tested and proven to be true
D. a hypothesis is repeatedly correct within the limits of available evidence
29. Arthropods are divided into classes.
A. 1
B. 2
C. 3
D. 4
30. When does the Euglena carry out holozoic nutrition?
A. In the absence of sunlight
B. When the chloroplast is deplited
C. When it's mouth and gullet are not functioning
D. All of the above
31. Which of these is not an example of insecta?
A. Housefly
B. Spider
C. Grasshopper
D. Butterfly
32. Which of these has true roots, stems and leaves?
A. Bryophyta
B. Thallophyta

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C. Schizophyta
D. Pteridophyta
33. Which of these is not an example of a Protozoa?
A. Amoeba
B. Paramecium
C. Hydra
D. Trypanosome
34. The phylum does not consist of worms?
A. Platyhelminthes
B. arthropoda
C. nematode
D. Annelida
35. All living organisms have the following characteristics except
A. photosynthesize
B. respire
C. move
D. feed
36. Division is to plants as is to animals.
A. kingdom
B. genera
C. order
D. phylum

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37. Animals move their entire body while plants move
A. their whole body
B. their upper body
C. parts of their body
D. their lower body
38. Which of the scientific names is correct?
A. Animalia mammalia
B. Hominidae Felidae
C. Homo Felidae
D. Homo sapiens
39. In a dicot leaf, guard cells differ from other epidermal cells because they
A. have no definite shape
B. lack nuclei
C. are smaller
D. contain chloroplasts
AO Milatia da differencia hallana di tanan and a tanan
40. What is the difference between viviparous and oviparous animals? The latter
A. give birth to live offspring
B. lay unfertilized eggs
C. protects eggs from predators
D. lay and brood over egg
41 are also classified as seed-bearing flowering plants.
A. Spermatophytes
B. Schizophyta

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- C. Thallophyta
- D. Bryophyta
- 42. Which of these is not true about plants?
- A. Most plants carry out photosynthesis.
- B. They have no fixed number of parts and branching is continuous.
- C. Gasous exchange occurs throughout the entire body.
- D. They possess special excretory systems.
- 43. Which of these parts of the Euglena makes it an animal?
- A. Pyrenoids
- B. Chloroplasts
- C. Nucleus
- D. Contractile vacuole
- 44. Which of these is not true about animals?
- A. Growth is indefinite and apical.
- B. They are holozoic feeders.
- C. They are active and have organs of movement.
- D. They possess specialized sense organs.
- 45. Which of these is not a characteristic of plants?
- A. They store food as glycogen.
- B. Growth is indefinite and apical.
- C. They are not active and have no organ of movement.
- D. They possess no special sense organ.

46. The function of the clitellum in the earthworm is to
A. aid digestion
B. prevent desiccation
C. assist locomotion
D. secrete cocoon
47. The binomial nomenclature is a combination of names.
A. 2
B. 3
C. 4
D. 5
48. The following are examples of myriapoda except
A. earthworm
B. centipedes
C. millipedes
D. all of the above
49. The fibrous root system is typical to
A. dicots
B. monocots
C. gymnosperms
D. ferns
50. Which of the following structures differentiates an animal cell from a plant cell?
A. Ribosome
R Cell membrane

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C. Chloroplast
D. Mitochondrion
51. The following make up kingdom Protista except
A. protophyta
B. protozoa
C. planktons
D. none of the above
52. The Greek word 'logos' means
A. life
B. help
C. word
D. study
53 is a permanent increase in size and mass of an organism.
A. Locomotion
B. Growth
C. Elongation
D. Population
54. Living things respond to the following stimuli except
A. touch
B. smell
C. sound
D. music

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55. When can a concept become a theory?
A. When the hypothesis is repeatedly correct within the limits of available vidence.
B. When a theory has been extensively tested and proven to be true.
C. When a good scientist conducts a research and is able to prove the authenticity of the research result.
D. All of the above.
56. The basic unit of classification of living things is the
A. kingdom
B. order
C. family
D. species
57. Which of the following structures is not found in a female agama lizard?
A. Nuchal crest
B. Eardrum
C. Gular fold
D. Nasal scale
58. Protozoa belongs to the group of organisms called
A. prostista
B. coelenterate
C. schizothymes
D. pseudopodia
59. Which of the following is a characteristic of living things?
A. Movement
R Nutrition

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C. Irritability
D. All of the above
60. Which one of the following is the correct plant classification?
A. KINGDOM-DIVISION-ORDER-CLASS-FAMILY-GENUS-SPECIES
B. KINGDOM-PHYLUM-CLASS-ORDER-FAMILY-GENUS-SPECIES
C. KINGDOM-DIVISION-CLASS-ORDER-FAMILY-GENUS-SPECIES
D. KINGDOM-DIVISION-FAMILY-CLASS-ORDER-GENUS-SPECIES
61. All are examples of Annelida except
A. earthworm
B. leech
C. tube worms
D. tapeworms
62. The major groups of plant kingdom include the following except
A. tracheophyta
B. bryophyte
C. thallophytic
D. spermatophyte
63 In fungi, food is stored as
A. starch
B. fat
C. fibre
D. glycogen

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64. Cotyledons refer to the number of
A. seeds
B. seed leaves
C. fruits
D. roots
65. In an angiosperm root, the xylem is
A. in a separate bundle from the phloem
B. surrounded by the phloem
C. above the phloem
D. around the phloem
66. Which of the following belongs to the group nematodes?
A. Threadworms
B. Hookworms
C. Filarial worms
D. All of the above
67. Which of these is not an example of a coelenterata?
A. Hydra
B. Trypanosome
C. Jelly-fish
D. Coral polyps
68. If an animal has scales, teeth, nerves and backbone, then the animal is likely to be
a A. toad
B. bird

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C. lizard
D. rat
69. Which is the correct way of writing scientific names?
(I) Italicizing the names only
(II) Underlining or italicizing the names
(III) Writing the first name with the initial letters in capitals and the second name in small letters.
A. I only
B. II only
C. II and III
D. I and II
70. Angiosperms are divided into which of these two classes?
A. Dicotyledons and Monocotyledons
B. Monocotyledons and Tricotyledons
C. Monocotyledons and Bicotyledons
D. Dicotyledons and Bicotyledons
71. In the egg of a bird, the embryo is located in the
A. chalaza
B. yolk
C. albumen
D. embryo disc
72. Animals are divided into two main groups namely and
A. humans and animals
B. mammals and primates

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C. vertebrates and invertebrates
D. unicellular and multicellular
73. Both algae and mosses contain
A. chlorophyll
B. stem
C. leaves
D. roots
74. Which of these is not a characteristic of angiosperms?
A. They are vascular plants.
B. They have well developed and complete flowers.
C. They are plants with naked seeds.
D. They are mainly terrestrial plants.
Angiosperms bear seeds which are protected within fruits.
75. In the Binomial Nomenclature, the second name is usually the
A. kingdomic name
B. generic name
C. classic name
D. specific name
76. Peripheral arrangement of vascular tissues in dicots is a characteristic of the internal structure of the
A. leaf
B. petiole
C. stem
D root

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77 is the basic unit of biological classification in which the
Organisms interbreed among themselves only.
A. Species
B. Family
C. Genus
D. Order
78. The Greek word 'bios' means
A. study
B. help
C. life
D. biology
79. What is the mode of nutrition for the mushroom?
A. Parasitic mode of nutrition
B. Saprophytic mode of nutrition
C. Chemotrophic mode of nutrition
D. Symbiotic mode of nutrition
80. Which one of the following parts of the Euglena enables it to carry out autotrophic nutrition?
A. Pellicle
B. Myoneme
C. Chloroplast
D. Gullet
81. Spirogyra reproduces vegetatively by
A. spore production

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B. fragmentation
C. multiple fission
D. budding
82. Tapeworm has a simple brain?
A. True
B. False
83. Which of these is a mollusc?
A. Octopus
B. Ringworm
C. planarian
D. Liver fluke
84. Another name for liver fluke (flatworm) is
84. Another name for liver fluke (flatworm) is  A. Schistosoma
A. Schistosoma
A. Schistosoma  B. Fasciola
A. Schistosoma  B. Fasciola  C. Hydra
A. Schistosoma  B. Fasciola  C. Hydra
A. Schistosoma  B. Fasciola  C. Hydra  D. Trypanosome
A. Schistosoma  B. Fasciola  C. Hydra  D. Trypanosome  85. Which of these is an example of Platyhelminthes?
<ul><li>A. Schistosoma</li><li>B. Fasciola</li><li>C. Hydra</li><li>D. Trypanosome</li><li>85. Which of these is an example of Platyhelminthes?</li><li>A. Hydra</li></ul>
<ul><li>A. Schistosoma</li><li>B. Fasciola</li><li>C. Hydra</li><li>D. Trypanosome</li><li>85. Which of these is an example of Platyhelminthes?</li><li>A. Hydra</li><li>B. Trypanosome</li></ul>
A. Schistosoma B. Fasciola C. Hydra D. Trypanosome  85. Which of these is an example of Platyhelminthes? A. Hydra B. Trypanosome C. Tapeworm
A. Schistosoma B. Fasciola C. Hydra D. Trypanosome  85. Which of these is an example of Platyhelminthes? A. Hydra B. Trypanosome C. Tapeworm

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B. birth growth maturity decline death
C. death nutrition birth reproduction
D. movement nutrition reproduction respiration growth
87. Which of these has a true body cavity or coelom?
A. Coelenterate
B. Protozoa
C. Platyhelminthes
D. Annelida
88. Which of these has a true body cavity or coelom?
A. Coelenterate
B. Protozoa
C. Platyhelminthes
D. Annelida
89 is an important characteristic of green plants.
A. Specialized sense organs
B. Motility
C. Autotrophic nutrition
D. Rapid response to stimuli
90. In order of development, which of these plant kingdoms is the most developed?
A. Pteridophyta
B. Schizophyta
C. Spermatophyte
D. Thallophyta

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91. Another name for blood fluke is
A. Schistosoma
B. Fasciola
C. planarian
D. Leech
92. Which of these is not an algae?
A. Penicillium
B. Chlamydomonas
C. Spirogyra
D. Volvox
93. Heterotrophic nutrition is a characteristic of the following organisms' except organisms
A. commensal
B. holophytic
C. mutualistic
D. holozoic
94. Which one of these organisms can be referred to as both a living and a non-living organism?
A. Man
B. Euglena
C. Paramecium
D. Virus
95. A faster colour change of a dry cobalt chloride paper affixed to the lower surface of a leaf than the upper one indicates that
A. sunlight slows down water loss from the upper surface

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B. the lower surface of the leaf has more stomata
C. sunlight causes the stomata on the upper surface to close
D. there are no stomata on the upper surface of a leaf
96. Everything in the world can be classified into and
A. living things, dead things
B. living things, non-living things
C. animate things, living things
D. inanimate things, non-living things
97. The following are examples of thallophytes except
A. fungi
B. algae
C. lichens
D. bacteria
98. In the order of classification of living things, which one of these is the first?
A. Phyla
B. Kingdom
C. Divisions
D. Family
99. Which of the following plants is not carnivorous?
A. Picher plants
B. Mistletoes
C. Bladderwort
D. Sundew

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100. Which of the following is incorrect about rhizopus or mucor?
A. It is a fungus.
B. It has non-septate hyphae.
C. It undergoes sexual and asexual reproduction.
D. It bears spores in sporangia.
101 are the most complex green plants.
A. Gymnosperms
B. Thallophytes
C. Angiosperms
D. Bryophytes
102. Which of these worms is beneficial to man?
A. Hookworm
B. Tapeworm
C. Roundworm
D. Earthworm
103. Which of these is the most important characteristics of living organisms?
A. Reproduction
B. Nutrition
C. Movement
D. All of the above
104. In taxonomic rank, which of the following is the highest rank?
A. Class
B. Kingdom
<del>-</del>

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C. Phylum	
D. Species	
105. Phyla is to animals as is to plants.	
A. kingdom	
B. genera	
C. species	
D. division	
106 is common to a typical animal cell and a typical plant cell?	?
A. Cellulose cell wall	
B. Chlorophyll	
C. Centrally placed nucleus	
D. Cell membrane	
107 is the study of plants and animals.	
A. Life	
B. Biology	
C. Science	
D. Research	
108. Which of these parts of the Euglena makes it a plant?	
A. Paramylum granules	
B. Eye spot	
C. Contractile vacuole	
D. Nucleus	

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109 are formed when algae and fungi exist together.
A. Fungolis
B. Lichens
C. Funalga
D. Bacteria
110. The tap root system is typical to
A. dicots
B. monocots
C. gymnosperms
D. ferns
111. Which of these plant kingdoms have roots, stems or leaves?
A. Spermatophyte
B. Pteridophyta
C. Schizophyta
D. Thallophyta
112. Nematodes are also known as
A. flatworms
B. earthworms
C. hookworms
D. roundworms
113. Plant classification was published in the year
A. 1707
B. 1778

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C. 1753
D. 1758
114. The jointed appendages of arthropods are used for all of the following except
A. feeding
B. movement
C. reproduction
D. excretion
115. The following are examples of crustaceans except
A. crab
B. shrimps
C. lobsters
D. periwinkles
116. A major difference between plants and animals is that
A. movement in animals is free but limited in plants
B. there is indefinite growth in animals
C. animals consume inorganic materials as food, while plants consume organic materials
D. animals give up carbon dioxide as a waste product of respiration while plants do not
117. Which of the following is not true of animal cells?
A. Chloroplasts are present
B. Cytoplasm is present
C. Cell wall is absent
D. Vacuoles are present

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118. Which one of these is the correct hierarchical arrangement?
A. KINGDOM-PHYLUM-CLASS-DIVISION-FAMILY-GENUS-ORDER
B. KINGDOM-PHYLUM-CLASS-ORDER-FAMILY-GENUS-SPECIES
C. FAMILY-KINGDOM-COMPOUND-GENUS-SPECIES-PHYLUM-CLASS
D. KINGDOM-CLASS-DIVISION-GENUS-SPECIES-PHYLUM-CLASS
119. Which of these characteristics makes virus a living organism?
A. It is microscopic in nature.
B. Its characteristics can be transferred from one generation to the next.
C. It assumes a crystalline form in a non-living medium.
D. It causes deadly and transferable disease like other microorganisms.
E. All of the above
120. Invertebrates are divided into groups.
A. 2
B. 4
C. 6
D. 8
121. Which of these is not a dicotyledon?
A. Mango
B. Cowpea
C. Groundnut
D. Maize
122. Animal classification was introduced in the year
A. 1707

B. 1778

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C. 1753

D. 1758

D. All of the above

# **TOPIC: CONCEPT OF LIVING**

# DIRECTION: Choose the correct answer from the lettered options.

1. Which of the following is not true about living things?
A. All existing cells come from the reproduction of pre-existing cells
B. All living things are made up of cells.
C. Genetic information is passed down from offspring to parents.
D. All cells contains information for its structural and functional development in its nucleic acid.
2. The following are general characteristics of living things except
A. growth
B. death
C. walking
D. adaptation
3. Animals move from place to place in search of the following except
A. mates
B. water
C. air
D. shelter
4. Living things include and
A. plates and knives
B. meat and knife
C. plants and animals
D. plants and crops alone

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5. Plants store their food as
A. glucose
B. glycogen
C. starch
D. saccharides
6 is the division of a cell to form another.
A. Fusions
B. Production
C. Respiration
D. Reproduction
Look at the diagram carefully and answer the questio

n correctly.

7. What is the name of this animal?



- A. Egg
- B. Snail
- C. Snailing
- D. Snake
- 8. Which one of the following is not a vertebrate?
- A. Hen
- B. Man
- C. Fish
- D. Ant

9. Plants during photosynthesis give out as a by product.
A. fruits
B. food
C. carbon dioxide
D. oxygen
Look at the diagram carefully and answer the question that follows.
10. What is the name of this type of fish?
A. Tilapia
B. Minnow
C. Mackerel
D. Shark
11. Which of these food types is rich in proteins?
A. Bread
B. Palm oil
C. Beef
D. Pawpaw
12. Substances making up living things are derived directly or indirectly from water, soil and
A. air
B. trees
C. energy
D. none of the above

Look at the diagram carefully and answer the question correctly.

13. What is the name of the part labelled 1?



A. Eye
B. Nostrils
C. Gills
D. Mouth
14 The synthesis of complex molecules in living organisms from simpler molecules is known as
A. anabolism
B. catabolism
C. anabism
D. catabism
15. The following are fields in which the knowledge of biology can be applied except
A. biotechnology
B. agriculture
C. economics
D. genetics
16. The structural organization in tissues or organs are never found in
A. living things
B. non-living things

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- C. plants
- D. avers
- 17. What is growth?
- A. It is an increase in the size of all parts of an organism.
- B. It is an increase in the height alone of an organism.
- C. It is an increase the width of a part of an organism.
- D. It is a deformity that occurs which leads to the increase in height and width of the organism.

Look at the diagram carefully and answer the question correctly.

18. What is the name of the part labelled 2?



- A. Tailing
- B. Tail or caudal fin
- C. Bifins
- D. Labels
- 19. \_\_\_\_\_ is a waste product from plants.
- A. Gum
- B. Water
- C. Carbon monoxide
- D. None of the above

20.	The	division	of kind	adoms	into	smaller	aroups	is	called	
		0.11.01011	O	,		0111011101	9.000		0000	

- A. phyla
- B. genus
- C. class
- D. species
- 21. Which of the following is not involved in the movement of living organisms?
- A. Bones
- B. Follicles
- C. Cilia
- D. Muscles

Examine the diagram carefully and answer the question that follows.

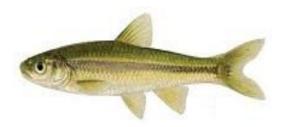
22. What is the name of this type of worm?



- A. Ringworm
- B. Speed worm
- C. Bagworm
- D. Earthworm

Look at the diagram carefully and answer the question correctly.

23. What is the name of this type of fish?



- A. Rayfish
- B. Catfish
- C. Money fish
- D. Sardine fish
- 24. When a hypothesis has been tested and found to be repeatedly correct within the limits of available evidence, it becomes a \_\_\_\_\_\_.
- A. theory
- B. certified hypothesis
- C. speculation
- D. doctrine
- 25. Sensitivity is another word for \_\_\_\_\_.
- A. irritability
- B. withdrawal
- C. response
- D. changes

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Look at the picture carefully and answer the question correctly.

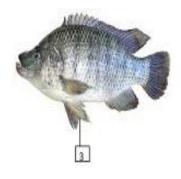
26. What is the name of this animal?



- A. Crocodile
- B.Newt
- C. Lizard
- D. Reptile
- 27. Do wall geckos look like lizards?
- A. Yes
- B. No

Look at the diagram carefully and answer the question correctly.

28. The part labelled 3 in the diagram is called \_\_\_\_\_.



- A. pelvic fin
- B. pectoral fin
- C. fin rays
- D. dorsal fin

29. The following are found in both plants and animals except
A. cytoplasm
B. vacuole
C. Golgi body
D. centrioles
Look at the diagram carefully and answer the question correctly.
30. What is the name of this type of fish?
A. Batfish
B. Cowfish
C. Sea fish
D. Catfish
31. All living things feed to produce energy for work.
A. mechanical
B. body
C. chemical
D. none of the above
32. Any object that does not possess life or living characteristics is a
A. living object
B. non-living object
C. growing object
D. cell

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33. The report of a scientific investigation should include the following except
A. observation
B. hypothesis
C. experimental procedure
D. practical
34. A is a reasonable explanation for a particular observation.
A. theory
B. hypothesis
C. guess
D. observation
35. Unicellular organisms are called
A. protozoans
B. metazoans
C. pongidae
D. proteus
36. The newt is an animal that looks like a
A. fowl
B. bird
C. cockroach
D. lizard

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Look at the picture carefully and answer the question correctly.

37. What is the name of the animal in the picture?



- A. Lizard
- B. Lizerd
- C. Wall gecko
- D. Agama lizard

38. An order is a group of related	-
A. genera	
B. families	

- C. classes
- D. phyla
- 39. \_\_\_\_\_ consists of the nucleus and cytoplasm.
- A. Protoplasm
- B. Chromosome
- C. Lysosomes
- D. Organelles
- 40. What is metabolism?

A. It is change in a cell that leads to the increase in the height and width of the organism.

 $\ensuremath{\mathsf{B}}.$  It is the conversion of non-living materials into cellular components.

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C. It is the breakdown of food and fluid substances in the body to produce waste. D. It is the decomposition of inorganic matter. Look at the diagram carefully and answer the question correctly. 41. What is this animal called? A. Leech B. Lich C. Linc D. Lach 42. The process where by the food you eat is made part of the body is called A. growth B. ingestion C. addition D. assimilation 43. Which of the following is an organelle directly involved in cell division in animals? A. Cytoplasm B. Centrioles C. Mitochondria

D. Cell wall

44 is a metabolic process that breaks down organic matter.
A. catastrophe
B. catalogue
C. catabolism
D. anabolism

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# **TOPIC: CONSERVATION OF NATURAL RESOURCES**

# DIRECTION: Choose the correct answer from the lettered options.

1 is the proce timber.	ess where only mature trees are allowed to be felled for
A. Indiscriminate cutting	
B. Random tree cutting	
C. Selective cutting	
D. Tactical tree felling	
2. Which of the following	is not a means of conserving natural resources?
A. Establishment of natio	nal parks
B. Selective logging	
C. Building of dams	
D. Bush burning	
3. In which of the following	ng states in Nigeria is Borgu game reserve found?
A. Enugu	
B. Anambra	
C. Kano	
D. Niger	
4. Which of the following	is not a conservable natural resource?
A. Minerals	
B. Sunlight	
C. Forest	
D. Soil	

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5. What does planting of trees that provide surface cover for the soil do?
A. It reduces soil nutrients.
B. It causes deficiency in plant growth.
C. It prevents rain from the soil.
D. It reduces water evaporation from the soil.
6. Afforestation is best described as
A. the harvesting of natural forest resources
B. planting trees of value to man
C. fallowing forestland
D. felling trees in the forest
7 is the judicious use of natural resources to ensure their continuous availability and to preserve the original nature of the environment.
A. Conservation of natural resources
B. Human resource control
C. Wildlife study
D. Environmental study
8. Storage of water in tanks or wells is a method of water.
A. recycling
B. treating
C. conserving
D. reusing
9. Natural resources are classified into categories.
A. 1
B. 3

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C. 2
D. 4
10 are resources which when exhausted cannot be replaced or recovered.
A. Non-renewable resources
B. Renewable
C. Conserved
D. Recycled
11. Which one of the following is a set of natural resources that needs to be conserved?
A. Blood, wildlife, lime and arteries
B. Concrete, sand, skin and fingers
C. Fingers, forest, head and skin
D. Water, wildlife, forest, and mineral resources
12. Why are mineral resources non-renewable?
A. They are never exhausted.
B. They can be replaced quickly.
C. Once they are exhausted, they cannot be replaced.
D. It is very small in quantity.
13. The term used in describing the effective management of natural resources by man is known as
A. conservation
B. utilization
C. economics
D. development

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14. The largest game reserve in Nigeria is the
A. Kanji Game Reserve in Niger State
B. Zamfara forest Reserve in Zamfara State
C. Yankari Game Reserve in Bauchi State
D. Borgu Game Reserve in Niger State
15. The conservation of non-renewable resources involves the following except
A. minimizing their wastage
B. using other natural resources
C. recycling them where possible
D. finding acceptable alternatives
16. Methods of soil conservation includes
A. overgrazing
B. deforestation
C. recycling of materials
D. afforestation
17. Which of the following farm practices can cause loss of soil fertility?
A. Mulching
B. Compost application
C. Use of fertilizers
D. Intensive cropping
18 involves the spreading of a layer of vegetable materials on cultivated farmland.
A. Planting

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B. Fallowing
C. Mulching
D. Cultivation
19. Are mineral resources renewable?
A. No
B. Yes
20. The conservation of natural resources can be achieved by the following except
A. creation of national parks
B. formation of conservation societies and agencies
C. establishment of game reserves
D. deregulated harvesting
21. Which one of the following is not a nature reserve in Nigeria?
A. Borgu game reserve
B. Yankari game reserve
C. Olomu forest reserve
D. Kalugu forest reserve
22. Which one of the following is not a way of ensuring conservation?
A. Establishment of agencies
B. Promoting conservation education
C. Establishment of conservation laws
D. Destruction of zoological gardens

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23. Conservation of natural resources is aimed at
A. preventing the loss, waste or exploitation of natural resources through rational use
B. preventing the spread of infectious diseases within a geographical location
C. preventing the spread of diseases from domestic animals to humans
D. none of the above
24. Which of the following is a way of conserving natural resources?
A. Establishing agencies for conservation and game reserves.
B. Establishing companies and educational facilities.
C. Regular renewal of used mineral resources.
D. Ensuring wildlife becomes extinct.
25. The planting of new trees where there was no tree is known as
A. afforestation
B. deforestation
C. re-planting
D. plantation farming
26. Through which of the following means can conservative education be effectively done?
A. Television
B. Cinemas
C. Newspapers
D. All of the above
27. Which one of the following animals should be conserved?
A. Domestic animals
B. Wild animals

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C. Farm animals
D. All of the above
28. The farming practice by which an exhausted farmland is left for a number of years before cultivation is known as
A. crop rotation
B. continuous cropping
C. mono cropping
D. bush fallowing
29 is not one of the advantages of clearing aquatic vegetation.
A. Providing enough space for fish
B. Allowing free oxygen circulation
C. Increasing productivity
D. Introducing harmful substances
30. The following agencies are responsible for conservation in Nigeria except
A. Forestry Departments
B. Nigerian Conservation Society
C. Games Reserve Authority
D. Red Cross Society
31. Prevention of erosion could best be carried out by
A. crop rotation and deforestation
B. contouring of sloping ground and afforestation
C. grazing, terracing and shifting cultivation
D. strip cropping and poaching

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32. Which of the following is not a method of conserving fishing grounds?
A. Use of nets with all sizes of mesh.
B. Use of nets with a particular mesh size.
C. Ban on harvesting of some species.
D. Regulating the sizes of mesh.
33. Which one of the following is not an example of mineral resources?
A. Petroleum
B. Coal
C. Bauxite
D. Gammalin
34. The felling of trees can be referred to as
A. forestry
B. afforestation
C. deforestation
D. harvesting
35. Which of the following is not a result of pollution of air and water?
A. Decrease in plant population
B. Proper animal growth
C. Death
D. Poisoning
36. In checking wind erosion, can serve as wind brakes.
A. stems
B. trees
C. leaf
D roots

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37 is a practice of illegally killing animals for commercial purposes.
A. Hunting
B. Poaching
C. Murder
D. None of the above
38. Which of the following is not part of the objectives of natural resource conservation?
A. To eliminate all wild animals for the survival of others.
B. To use our resources on sustained yield basis.
C. To guard against indiscriminate killing of plants and animals.
D. To guard against the extinction and exhaustion of natural resources.
39. What are the benefits of conservation?
A. It helps to maintain a healthy functioning ecosystem.
B. Natural reserves can be used to generate revenue.
C. It preserves the beauty of nature.
D. All of the above
40 is defined as the repeated grazing on a piece of land by domestic animals.
A. Overstepping
B. Overfeeding
C. Overgrazing
D. All of the above
41. The following are main types of tissues in higher organisms excepttissues.
A. digestive

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B. vascular
C. muscular
D. nervous
42. In conservation of wildlife, killing of animals should
A. be allowed frequently
B. be allowed moderately
C. not be allowed
D. none of the above
43. Which of the following is a benefit of soil conservation?
A. Prevention of soil erosion
B. Prevention of over-grazing
C. Escape of nutrients
D. None of the above
44. Which of the following is not a way of conserving the soil?
A. Use of cover crops
B. Bush burning
C. Mulching
D. Better farming practices
45. Loam is the best type of soil for crop production because
A. it has a high percentage of clay, which prevents leaching
B. it has high humus content
C. it is porous and has good water retention capacity
D gravels which obstruct implements are absent

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46. Which one of the options is not a characteristic of aves?
A. They are warm-blooded animals.
B. They have no outer ear.
C. They have a four chambered heart.
D. They do not have lungs.
47. Which of the following is not a non-renewable resource?
A. Food
B. Natural gas
C. Coal
D. Gasoline
48. Which of the following is an importance of natural resources?
A. It provides drinking water.
B. It provides food for human consumption.
C. It generates revenue for the government.
D. All of the above.
49. Oil spillage pollutes the
A. air
B. water
C. mind
D. none of the above
50. Which of the following is an air pollutant?
A. Oxygen
B. Water vapour
C. Carbon monoxide

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D. Nitrogen

# **TOPIC: ORGANISATION OF LIFE**

# DIRECTION: Choose the correct answer from the lettered options.

1. Which of the following methods of reproduction is common to Paramecium and Amoeba?
A. Conjunction
B. Sexual reproduction
C. Binary fission
D. Budding
2. Lining and protection of plant surface is a function of the
A. leaf
B. tissues
C. strengthening tissues
D. epithelial tissues
3. The main similarity between unicellular and multicellular organisms is that both
A. perform all life activities
B. exist as filaments
C. are plants
D. exist as colonies
4. Transportation of food and water in plants is by the
A. pacting
B. vascular bundle
C. pericycle
D. cortex

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5. Characteristics of aves include the following except
A. they are homoeothermic
B. their skeleton is rigid and their bones have air sacs
C. they give birth to their young ones alive
D. their head, neck and trunks are covered with feathers
6. A system is made up of different
A. tissues
B. organs
C. cells
D. none of the above
7. The oesophagus and the pancreas belong to the system.
A. digestive
B. respiratory
C. reproductive
D. circulatory
8. There are levels of organization of life in organisms.
A. 3
B. 6
C. 4
D. 7
9. What is the function of the nervous tissues?
A. Conducting impulses
B. Supporting the body

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C. Forming the skin
D. Conveying food and oxygen
10. Which of these does not manufacture its own food?
A. Virus
B. Spirogyra
C. Green algae
D. Euglena
11. Euglena moves by
A. whipping action of its flagellum
B. beating of its cilia
C. rotating action of the microvilli
D. locating the pseudopodia and cilia simultaneously
12. Diatoms, Euglena, Spirogyra and Volvox are all examples of
A. fungi
B. algae
C. bacteria
D. Amoeba
13. What is the name of the structure in the cell that controls the movement of substances in and out of the cell?
A. Cytoplasmic membrane
B. Nuclear membrane
C. Cytoplasm
D. Protoplasm

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14. The is the functional and structural unit of life.
A. organ
B. system
C. cell
D. tissue
15. Which of the following pairs of organisms exists as colonies?
A. Obelia and Euglena
B. Pandorina and Volvox
C. Chlamydomonas and Amoeba
D. Hydra and Spirogyra
16. An example of an animal made up of tissues only is
A. Amoeba
B. Paramecium
C. Hydra
D. Euglena
17. The main function of the xylem and phloem is
A. photosynthesis
B. support
C. conduction and translocation
D. reproduction and photosynthesis
18. The law of thermodynamics states that energy can neither be created nor destroyed.
A. first
B. second

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C. Third
D. fourth
19. Which of the following is not correct about a living cell?
A. The basic unit of a living organism is the cell.
B. All living organisms are either single or groups of cell(s).
C. All the cells in an organism are the same.
D. There is no life apart from the life in cells.
20. The vegetative plant body of fungi is called
A. pileus
B. gill
C. stipe
D. hyphae
21. The chemical formula for oxygen is
A. OX <sub>2</sub>
B. O
C. O <sub>2</sub>
D. H <sub>2</sub> O
22. Movement of parts of the body is by tissues.
A. muscle
B. epithelial
C. connective
D. nerve

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23. The digestive system is made up of organs such as the following except
A. stomach
B. veins
C. duodenum
D. ileum
24. Euglena may be classified as a plant because it
A. has chloroplasts
B. has a gullet
C. lives in a pond
D. possesses a flagellum
25. The simplest of all the levels of organization in mammals is the
A. tissue
B. organ
C. system
D. cell
26. What is energy?
A. Energy is defined as the ability to do work.
B. Energy is defined as the ability to carry effort.
C. Energy is force.
D. Energy is the speed exerted on force.
27 is a disadvantage of complexity in higher organisms.
A. High energy requirement
B. Functional efficiency

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C. Low energy requirement
D. Increase in size
28. Stamen and pistil are organs in the system.
A. root
B. shoot
C. transport
D. reproductive
29. Which of the following structures controls the activities of a living cell?
A. Nucleus
B. Centrosome
C. Chloroplast
D. Golgi body
30. Which one of the following is the ultimate source of energy?
A. Rain
B. The cloud
C. The water vapour
D. The sun
31. What is a single-celled organism called?
A. Mon cellular
B. Unicellular
C. Single cellular
D. None of the above

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32. Living things are made up of
A. blood
B. skeleton
C. cells
D. muscles
33. A tissue is a collection of
A. cells
B. organs
C. systems
D. muscles
34. The cilia in Paramecium are used for
A. respiration
B. locomotion
C. protection
D. producing food
35. Which of the following systems provides places for the attachment of muscles?
A. Nervous systems
B. Reproductive systems
C. Skeletal systems
D. Digestive systems
36. A multicellular organism has
A. Two cells
B. many cells

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C. less than one cell
D. none of the above
37. The following are examples of cytoplasmic structures except
A. vacuoles
B. flagella
C. cilia
D. fur
38. In humans, exchange of gases take place with the help of the and
A. nose, lungs
B. skin, mouth
C. heart, lungs
D. all of the above
39. Amoeba moves by means of
A. cilia
B. flagella
C. pseudopodia
D. swimmerets
40. The law of thermodynamics states that in any conversion of energy from one form to another, there is always a decrease in the amount of useful energy.
A. Third
B. first
C. second
D. fourth

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41. The second level of organization in mammals is
A. cells
B. organs
C. tissues
D. systems
42. The scientist who discovered the honey-comb structure of the cell was
A. Robert Hooke
B. Felix Dujardin
C. Mathias Schleiden
D. Louis Pasteur
43. Most of the energy in the cell is produced in the
A. mitochondrion
B. lysosome
C. plastid
D. Golgi apparatus
44. What gives support to flowering plants?
A. Stem and leaves
B. Root and root hairs
C. Xylem
D. Phloem
45. The formation of fats and oils from fatty acids and glycerol is an example of process.
A. photolytic
B. anabolic

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C. catabolic
D. metabolism
46. Which of the following organisms does not carry out photosynthesis?
A. Chlorella
B. Spirogyra
C. Paramecium
D. Chlamydomonas
47. Which one of the following sets represents energy forms?
A. Mechanical, electrical, solar, potential
B. Steam, kinetic, mechanical, solar
C. Power, current, voltage, circuit
D. Nuclear, solar, car, machine
D. Nacical, solal, cal, machine
48. The levels of organization of life in organisms are, and
A. cells, tissues, organs, systems
B. kingdom, phylum, class, order
C. appendicular, axial, upper limbs, lower limbs
D. eye, ear, nose, tongue
49. The main organs in the female reproductive system include the following except
A. testicle
B. vagina
C. ovaries
D. uterus

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- 50. Which of the following constitutes the main internal tissues of a leaf?
- A. Cuticle
- B. Mesophyll
- C. Vascular tissue
- D. Lower epidermis

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# **TOPIC: PLANT AND ANIMAL NUTRITION**

## DIRECTION: Choose the correct answer from the lettered options.

1. A person that is obese must avoid meals containing and
A. carrots and oranges
B. margarine and butter
C. groundnut and beans
D. beef and yam
2. When food is oxidized, is released.
A. CO <sub>2</sub>
B. O <sub>2</sub>
C. energy
D. carbohydrate
3. The first stable product of photosynthesis is
A. water
B. starch
C. carbon dioxide
D. glucose
4. What are the two basic modes of nutrition in living organisms?
A. Holozoic and heterotrophic
B. Autotrophic and holozoic
C. Holophytic and chemosynthesis
D. Holozoic and photosynthesis

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5. Nutrients needed by plants in tiny amounts are known as
A. macronutrients
B. essential elements
C. trace nutrients
D. all of the above
6. In the classification of living organisms, nematode, Annelida and mollusca are examples of
A. genus
B. kingdom Plantae
C. kingdom Animalia
D. special
7. To retain the desirable trait of large body size in a herd observed by the farmer, he needs to
A. feed the animals in the herd with more food
B. cross-breed the animals with a different herd
C. inbreed the animals within the herd
D. prevent diseases in his herd
8. The role of adenosine triphosphate (ATP) include all except
A. chemical energy production
B. transmission of nerve impulses
C. alcohol production in aerobic respiration
D. water production in aerobic respiration
9. Vitamin E is concerned with
A. bone formation

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B. reproduction
C. vision
D. formation of red blood cell
10. What is the function of bacteria in the large intestine of man?
A. To synthesize vitamin K and B2
B. To digest vegetables
C. To synthesize vitamins A and D
D. To absorb water
11 Hataratraphia putritian can be defined as
11. Heterotrophic nutrition can be defined as
A. feeding by depending on one's own manufactured food
B. direct or indirect nutrition from plants
C. feeding of child by parent
D. nutrition of plants through photosynthesis
12. Which of the following is a symbol for representing manganese?
A. Mn
B. Mg
C. Ma
D. Ms
13. What mode of nutrition is exhibited by autotrophs?
A. Holophytic
B. Heterophic
C. Chemotrophic
D. Holozoic

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14. Which of the following organs are directly involved in nutrition?
A. Oesophagus, bronchus, stomach, pancreas and anus
B. Spleen, pharynx, duodenum, jejunum and rectum
C. Teeth, oesophagus, ileum wings and large intestine
D. Salivary gland, liver
15. Which of the following groups consists of heterotrophs?
A. Mucor, Chlamydomonas and Euglena
B. Spirogyra, mucor and mushroom
C. Man, mucor and mushroom
D. Man, maize and cocopea
16. Which of the following is an autotrophic mode of nutrition?
A. Chemosynthesis
B. Saprophytism
C. Parasitism
D. Symbiosis
17. Which one of the following is not a storage organ in plants?
A. Underground stems
B. Root tubers
C. Seeds
D. Buds
18 The following are factors that affect photosynthesis except
A. chlorophyll concentration
B. water logged soil

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C. optimum temperature
D. light intensity
19. All organs of plants with chlorophylls are in colour.
A. green
B. yellow
C. brown
D. white
20. Which of the following structural features makes Drosera (sundew) adapt to its carnivorous mode of nutrition?
A. Long root with glandular hairs
B. Club-shaped glandular hairs on leaves
C. Prominent lenticel on the stem
D. Broad leaves with long spines
21. In the marine food web, the source of energy to the producer comes from the
A. sea waves
B. sea water
C. sun
D. air
22 are fungi or bacteria that feed on dead organic matter.
A. Endo parasites
B. Saprophytes
C. Commensals
D. Symbionts

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23. In humans, water can be excreted through
A. the skin
B. the digestive tract
C. the cytoplasm of worn-out cells
D. the cellular respiration
24. Thunderstorm can be beneficial to plants because it
A. kills the pests that attack the crops
B. destroys some of the major crops
C. adds nitrates to the soil
D. adds lime to the soil
25. Which of the following is used to test for protein?
A. Million's reagent
B. Fehling's solution
C. Sudan III
D. lodine solution
26. During which of the following processes is food for animals produced?
A. Photosynthesis
B. Respiration
C. Nutrition
D. Digestion
27. Which of the following is not one of the processes involved in trifurcation?
A. Conversion of ammonia into nitrites
B. Conversion of nitrites into nitrates

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C. Conversion of nitrates into nitrogen gas
D. None of the above
28. Which of the following is the best proof of photosynthesis by a plant?
A. Absorption of light
B. Formation of starch
C. Availability of carbon dioxide
D. Splitting of water molecules
29. Which of the following is not a micronutrient?
A. Molybdenum
B. Phosphorus
C. Iron
D. Manganese
30. The is vestigial in humans but functional in other mammals.
A. liver
B. appendix
C. rectum
D. stomach
31. The mode of nutrition exhibited by a tapeworm is
A. symbiotic
B. saprophytic
C. parasitic
D. holozoic

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32. Chlorophyll and protein formation is a function of
A. iron
B. sulphur
C. potassium
D. calcium
33. Which of the following essential substances is contained in vegetables?
A. Chlorophyll
B. Glucose
C. Mineral salts
D. Carbon dioxide
34. Which of the following juices contains the enzyme ptyalin?
A. Gastric juice
B. Pancreatic juice
C. Succus
D. Saliva
35. Which one of the following does not reduce chlorophyll concentration?
A. High light intensity
B. Mineral deficiency diseases
C. Ageing process
D. Optimum light intensity
36. An experiment designed to eliminate all bias when carrying out an experiment is known as the?
A. observation
B. inference for the experiment

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C. established hypothesis
D. controlled experiment
37. Which of the following pairs of organisms are photosynthetic?
A. Amoeba and Paramecium
B. Volvox and Rhizopus
C. Chlamydomonas and Euglena
D. Nostoc and Plasmodium
38. Green plants manufacture their food in the presence of sunlight through the process of
A. photosynthesis
B. chemosynthesis
C. nutrition
D. saprophytism
39 is not a mineral salt required for the synthesis of proteins, fats and oils in plants.
A. Phosphates
B. Nitrates
C. Carbon
D. Sulphates
40. When reporting a scientific investigation, which of the following option is correct?
A. Observation> Control> Theory> Inference> Data
B. Observation> Inference> Measurement> Identification> Hypothesis> Experiment> theory
C. Collection> Aim> Objective> Method> Experiment> Conclusion
D. Observation> Hypothesis> Experiment> Result> Analysis> Conclusion

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41. In the biuret's test, some protein was mixed with sodium hydroxide solution. Which of the following chemicals should be added to the mixture for positive results?
A. Mercurous nitrate
B. Copper sulphate
C. Mercuric nitrate
D. Sodium carbonate
42. Autotrophic nutrition may be described as food obtained
A. from other organisms in exchange for some products
B. by the breakdown of complex substances to simple digestable substances
C. by an organism utilizing its own store of energy
D. by synthesizing simple substances using energy from an external source
43. Green plants require to manufacture their food.
A. fluids
B. inorganic substances
C. living materials
D. gases only
44. In which of the following forms can carbohydrate be stored in yam?
A. Glucose
B. Maltose
C. Starch
D. Glycogen
45. Which of the following mineral salts is a trace element?
A. Zinc
B. Carbon

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C. Hydrogen
D. Potassium
46. Which of the following is used to test for starch?
A. Million's reagent
B. Fehling's solution
C. Sudan III solution
D. lodine solution
47. The of a plant is the only structure capable of trapping sunlight
A. guard cell
B. chlorophyll
C. cuticle
D. vascular bundle
48. The dentition of an herbivore is distinct from that of other animals due to the presence of
A. diastema
B. cusps on molar teeth
C. canines
D. ridges on molar teeth
49. Carbon (iv) oxide diffuses into the leaves through the to the mesophyl layer.
A. stomata
B. guard cells
C. air space
D. epidermis

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50. A	colour confirms the presence of starch in a leaf.
A. blue-green	
B. blue-grey	
C. blue-black	
D. blue	
51. The importan	ce of a balanced diet is to
A. maintain cons	tant size of an animal
B. provide good	taste in the food
C. increase the e	effectiveness of digestion
D. provide good	health for an individual
52. In the body, o	dietary vitamins plays the role of
A. supplying cark	oohydrates and fats
B. influencing ce	rtain chemical processes
C. stimulating the	e muscles of the alimentary canal
D. digesting prot	reins
53. In the test fo	r starch, the leaf is first placed in boiling water in order to
A. remove the ch	nlorophyll
B. dissolve the w	axy cuticle
C. kill and make	the leaf permeable
D. turn it blue-bla	ack
54. The nutrient	necessary for nitogen fixation is
A. zinc	
R chlorine	

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C. molybdenum
D. copper
55. Only green plants can carry out autotrophic nutrition.
A. True
B. False
56. The teeth used for tearing and cutting are and
A. canine and molars
B. premolars and incisors
C. molars and incisors
D. canine and incisors
57. Stunted growth and chlorosis are deficiencies in plants that lack the following except
A. nitrogen
B. magnesium
C. manganese
D. iron
58. Which of the following organisms exhibits extracellular digestion?
A. Moulds
B. Green plants
C. Algae
D. Bryophytes
59. An example of a macronutrient is
A. zinc

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B. copper
C. boron
D. sulphur
60. Nitrogen-fixing microorganisms in leguminous plants live symbiotically in the
A. root nodules
B. taproots
C. branch roots
D. root hairs
61. Which of the following statements is not true of the light stage of photosynthesis?
A. Chlorophyll is energized by sunlight.
B. Water molecules split into hydrogen and hydroxyl ions.
C. Carbon (IV) oxide is reduced by hydrogen atoms in NADPH2.
D. Water is formed.
62. For heterotrophic organisms, competition is least caused by the inadequacy of
A. mates
B. space
C. light
D. nutrients
63. Which of the following does not represent a heterotrophic mode of nutrition?
A. Symbiosis
B. Parasitism
C. Commensalism
D. Holophytism

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64. When proteins are broken down, they provide the body with
A. glycerol
B. monosaccharaides
C. energy
D. amino acids
65. Which of the following is considered the first product of photosynthesis?
A. Protein
B. Energized chlorophyll
C. Hydroxyl ions
D. Starch
66. Good quality food will perform the following functions in humans except
A. supply energy for the body
B. provide resistance against natural disasters
C. sustain growth
D. maintain health
67. Which of the following is not an importance of calcium?
A. It is involved in cell wall formation.
B. It is necessary for protein formation.
C. It is vital for enzyme activation.
D. It helps give rigidity to plants.
68. Legumes incorporate nitrogen gas into their proteins because
A. of the presence of azotobacter in their roots
B. they possess root nodules containing Rhizobium

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C. they have a well-developed root system
D. they are autotrophic
69. Which of the following is not true of photosynthesis?
A. Energy from sunlight is absorbed.
B. Carbon dioxide is evolved.
C. Glucose is synthesized.
D. Oxygen is given off.
70. A thunderstorm can be beneficial to plants because it
A. kills the pest that attacks crops
B. destroys some of the major crops
C. adds nitrates to the soil
D. adds lime to the soil
71. The type of nutrition shown by Spirogyra is
A. symbiosis
B. holophytic
C. holozoic
D. chemosynthetic
72. The severe deficiency of vitamin C leads to
A. Kwashiorkor
B. Beriberi
C. Pellagra
D. Scurvy

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73. Which of the following statements about water in humans is not correct?
A. It plays an important role in temperature regulation.
B. It acts as solvent for substances conveyed around the body.
C. It plays a role in the formation of vitamin D.
D. It is needed for many life processes.
74. Which of the following groups consists of only micronutrients?
A. Molybdenum, sulphur and copper
B. Boron, zinc and calcium
C. Manganese, molybdenum and zinc
D. Magnesium, phosphorus and manganese
75. Overcrowding in seedlings of different species is less serious than overcrowding involving one specie because different species may
A. have different nutritional needs
B. lack the same nutrient
C. be active at the same time
D. have similar tolerance
76. The pancreatic duct opens into the
A. caecum
B. colon
C. ileum
D. duodenum
77. Aquatic green plants obtain carbon (iv) oxide from dissolved in water.
A. air
B. chemicals

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C. solids
D. none of the above
78. In a yam plant, where is the food stored?
A. Stem
B. Bud
C. Adventitious roots
D. Leaves
79. Which of the following is not a step involved in light reaction of photosynthesis?
A. Photolysis of water
B. Transfer of hydrogen by NADP
C. ATP formation
D. ADP formation
80. Which of the following organisms is a chemoautotroph?
A. Virus
B. Bacteria
C. Paramecium
D. Euglena
81. Which of the following elements is required in large amounts by plants?
A. Molybdenum
B. Boron
C. Copper
D. Phosphorus

82. Which of the following substances has the highest amount of energy in joules per unit weight?
A. Carbohydrates
B. Proteins
C. Fats
D. Vitamins
83. Cretinism is caused by the deficiency of
A. adrenaline
B. vitamin A
C. insulin
D. thyroxine
84. The chloroplast in Spirogyra is spiral in shape while in Zygnema, it is shaped.
A. square
B. disc
C. star
D. round
85. Which of these is the terminal portion of the alimentary canal of a mammal?
A. Oesophagus
B. Stomach
C. Rectum
D. Colon
86. The part of the digestive system of a bird where grinding of maize occurs is the
A. crop

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- B. stomach
- C. gizzard
- D. cloacae
- 87. In an experiment to test for photosynthesis, why is the green leaf tested for starch and not glucose?
- A. The glucose is used up immediately to provide energy for the needs of the leaf.
- B. The glucose formed is converted to starch.
- C. Starch is stored only in leaves.
- D. There are no chemicals for glucose test for leaves.

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# **ANSWERS**

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# **TOPIC: ANIMAL NUTRITION**

## DIRECTION: Choose the correct answer from the lettered options.

1. Animal nutrition involves the study of
A. animal husbandry
B. farm equipment and farm produce
C. food substances and digestive enzymes
D. the teeth and chewing and biting patterns
The Correct Answer is option [C].
2. The term ecosystem refers to
A. different groups of green plants in a habitat
B. the relationship between animals and plants in a given environment
C. living organisms interacting with the physical environment
D. members of particular plants and animals living in a habitat
The correct answer is option [C].
3. The most effective method of dealing with non-biodegradable pollutants is by
A. dumping
B. recycling
C. incineration
D. burying
The correct answer is option [B]
4 Which of the following is not a factor responsible for population sizes?
A. Nativity
B. Feeding

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C. Immigration
D. Mortality
The correct answer is option [B].
5. Which of these organisms is both holozoic and autotrophic?
A. Spirogyra
B. Paramecium
C. Euglena
D. Amoeba
The correct answer is option [C]
Euglena shows both animal and plant features.
6. Euglena may be classified as a plant because it
A. has chloroplasts
B. has a gullet
C. lives in a pond
D. possesses a flagellum
The correct answer is option [A]
7. The following agencies are responsible for conservation in Nigeria except
A. Forestry Departments
B. Nigerian Conservation Society
C. Games Reserve Authority
D. Red Cross Society
The correct answer is option [D]

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8. Which of the following effects would desertification have on the ecological balance represented in the diagram?



- A. 10 x 10<sup>4</sup> K cal obtained from the sun would decrease.
- B. 10 x 10<sup>4</sup> K cal obtained from the sun would increase.
- C. 6 x 10<sup>4</sup> K cal obtained at level I would decrease.
- D. 3.5 x 10<sup>4</sup> K cal obtained at level II would increase.

The correct answer is option [C]

Desertification would result in a reduction in the grass population; thus the energy obtained at the tropic level I would decrease.

9. Sucrose is found in \_\_\_\_\_.

A. coconut water

B. sugar cane

C. malted beans

D. beef

The Correct Answer is option [B].

10. One of the ecological conditions which favors the spread of malaria is

A. proper disposal of decaying organic matter

B. cleaning bushes around houses

C. presence of water weeds

D. presence of stagnant water

The correct answer is option [D]

11. A habitat with low rainfall,	very low humidity,	and exposed s	oil with little	plant cover,
few trees and shrubs is likely	to be			

- A. a rain forest
- B. a mangrove forest
- C. a desert
- D. a swamp

The correct answer is option [C]

- 12. Which of the following is not correct about a living cell?
- A. The basic unit of a living organism is the cell.
- B. All living organisms are either single or groups of cell(s).
- C. All the cells in an organism are the same.
- D. There is no life apart from the life in cells.

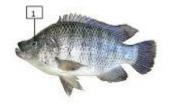
The correct answer is option [C]

- 13. Which of the following is an organelle directly involved in cell division in animals?
- A. Cytoplasm
- B. Centrioles
- C. Mitochondria
- D. Cell wall

The correct answer is option [B].

Look at the diagram carefully and answer the question correctly.

14. What is the name of the part labelled 1?



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A. Eye
B. Nostrils
C. Gills
D. Mouth
The correct Answer is option [A].
15. The is vestigial in humans but functional in other mammals.
A. liver
B. appendix
C. rectum
D. stomach
The correct answer is option [B]
16. Which of these plant kingdoms have roots, stems or leaves?
A. Spermatophyte
B. Pteridophyta
C. Schizophyta
D. Thallophytic
The correct answer is option [D]
17 are also classified as seed-bearing flowering plants.
A. Spermatophytes
B. Schizophyta
C. Thallophyta
D. Bryophyta
The correct answer is option [A]

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18. The following are examples of schizophyta except
A. bacteria
B. viruses
C. nostoc
D. lichens
The correct answer is option [D]
19. During combustion, carbon is oxidized to
A. carbon (iv) oxide
B. trioxocarbonate iv
C. oxygen
D. nitrogen
The correct answer is option [A].
20. Possession of strong adhesives is a feature of animals living in
A. sandy beaches
B. rocky chores
C. benthic zones
D. deserts
The correct answer is option [C]
21 is an organic catalyst that promotes or speeds up chemical changes in living cells.
A. A promoter
B. A chemical
C. An enzyme
D. A parasite
The Correct Answer is option [C].

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22. Lack of in the body causes pellagra.
A. iodine
B. vitamin C
C. protein
D. niacin
The correct answer is option [D].
Niacin is also known as vitamin B3
23. The following are various modes of nutrition in heterotrophic organisms except mode of nutrition.
A. parasitic
B. halophytic
C. saprophytic
D. symbiotic
The Correct Answer is option [B].
24. What is condensation?
A. It is the combustion of molecules.
B. It is the change of the physical state of matter from gaseous phase into liquid phase.
C. It is the condensation of molecules from scanty form to a more confined form.
D. It is the use of sieve to filter rough substances away from smooth substances.
The Correct Answer is option [B].
25. All kinds of food eaten by animals can be divided into groups of food substances.
A. eight
B. ten
C. two

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D. six
The Correct Answer is option [D].
26 consist of indigestible fibrous materials derived from vegetables, fruits and proteins.
A. Roughages
B. Roughs
C. Roughton
D. Rough
The Correct Answer is option [A].
27. Which of the following is not a test for protein?
A. Million's test
B. Biuret's test
C. Benedict's test
D. Xanthoproteic test
The correct answer is option [C].
Benedict's test is used to test for the presence of all monosaccharides.
28 is a mode of nutrition where certain bacteria are able to manufacture their food as they synthesise organic compounds from simple inorganic materials.
A. Endoparasitic mode
B. Ectoparasitic mode
C. Chemosynthetic mode
D. Parasitic mode
The Correct Answer is option [C].

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29. The product of the action of erepsin on peptone is
A. maltose
B. glycerol
C. amino acid
D. glucose
The correct answer is option [C].
30. How do you test for carbohydrate?
A. Mix equal amount of glucose and Fehling's solution in a test tube and place it in a boiling water bath.
B. Mix equal amount of sugar and Benedict's solution in a test tube and pour it in a boiling water.
C. Mix sucrose and Fehling's solution and put it in the fridge.
D. Mix carbohydrates and water and put it in fridge.
The Correct Answer is option [A].
31. Foods that largely contain are energy giving foods.
A. carbohydrates
B. water
C. protein
D. mineral salts
The correct answer is option [A].
32. It is important to eat balanced diet in order to
A. stay healthy
B. sleep well
C. work hard
D. grow tall
The correct answer is option [A].

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- 33. What is a balanced diet?
- A. It is a diet that contains the correct proportions of proteins and carbohydrates.
- B. It is a diet that contains the right amount of all six classes of food substances.
- C. It is a diet that contains mineral salts, proteins, carbohydrates and fibres in their appropriate amount.
- D. They contain majorly carbohydrate food substance.

The Correct Answer is option [B].

- 34. Which of the following is not a characteristic of enzymes?
- A. They are soluble.
- B. They are protein.
- C. They are lipids.
- D. They are specific.

The Correct Answer is option [C].

- 35. Which of the following is not a B vitamin?
- A. Niacin
- B. Riboflavin
- C. Thiamine
- D. Calciferol

The correct answer is option [D].

Calciferol is vitamin D. List of B vitamins

Vitamin B1 (thiamine)

Vitamin B2 (riboflavin)

Vitamin B3 (niacin, includes nicotinic acid and nicotinamide)

Vitamin B5 (pantothenic acid)

Vitamin B6 (pyridoxine, pyridoxal, and pyridoxamine)

Vitamin B7 (biotin), also known as vitamin H
Vitamin B9 (folic acid), also, vitamin M
Vitamin B12 (various cobalamins; commonly cyanocobalamin in vitamin supplements)
36. Which of the following is not an example of a monosaccharide?
A. Glucose
B. Lactose
C. Fructose
D. Ribose
The correct answer is option [B].
37. Starch can be gotten from all of the following except
A. potato
B. tapioca
C. millet
D. peas
The correct answer is option [D].
Peas is a source of protein
38. Omnivorous animals feed on both and
A. fresh, live animals
B. plants, leaves
C. plants, animals
D. milk, animals
The Correct Answer is option [C].
39. What are the components of carbohydrate?
A. Protein, carbon and oxygen

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B. Carbon, hydrogen and oxygen
C. Minerals, salt and fibre
D. Carbondioxide, oxygen and vitamins
The Correct Answer is option [B].
40. Mucus is composed of
A. protein, carbohydrate and sulphur
B. salt and fibre
C. fibre and carbohydrate
D. muchin, cells, water and inorganic salts
The Correct Answer is option [D].
41. Monosaccharide's, disaccharides and polysaccharides are classifications of  ———————————————————————————————————
B. protein
C. fats and oils
D. carbohydrates
The correct answer is option [D].
42. Water forms about of man's body.
A. 75%
B. 85%
C. 50%
D. 65%
The Correct Answer is option [A].

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43. Sucrose is found in
A. coconut water
B. sugar cane
C. malted beans
D. beef
The Correct Answer is option [B].
44. The condensation of two simple sugar molecules form a
A. complex sugar
B. complicated sugar
C. combusted sugar
D. contaminated sugar
The Correct Answer is option [A].
45. Ptyalin is an enzyme that acts on
A. protein
B. fats and oils
C. cooked starch
D. peptones
The correct answer is option [C].
46. What colour will a boiled starch solution turn into when a few drops of iodine solution is added to it?
A. Red
B. Black pure
C. Blue-black
C. Blue-black D. Reddish

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47. How do you test for oil and fat?
A. By dropping oil on a spot on a filter paper; the drop becomes more translucent.
B. By mixing oil in water and allowing it to settle down; subsequently draining off the fluid that settles at the bottom.
C. By spraying oil on the ground; observing weather it attracts flies or ants.
D. By eating fat; calculating to see how long it will take it to digest.
The Correct Answer is option [A].
48. The animals which prepare their food on their own are called
A. heterotrophs
B. autotrophs
C. manual
D. heterophy
The Correct Answer is option [B].
49. Which of the following does not take part in the formation of teeth and bone?
A. Calcium
B. Potassium
C. Phosphorus
D. Fluorine
The correct answer is option [B].
It is for the functioning of the muscles and for the transmission of nerve impulses.
50. Which of the following nutrients is known as welfare nutrient?

The Correct Answer is option [A].

A. Mineral salts and vitamins

B. Proteins and fats

C. Fibre and fats

D. Salts and fibre

51. Excess carbohydrate in human is converted to
A. sugar
B. protein
C. fat
D. vitamin
The correct answer is option [C].

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## **TOPIC: BASIC ECOLOGICAL CONCEPTS**

## DIRECTION: Choose the correct answer from the lettered options.

1. Possession of strong adhesives is a feature of animals living in
A. sandy beaches
B. rocky chores
C. benthic zones
D. deserts
The correct answer is option [C]
2. Water loss is most rapid in soil.
A. sandy
B. clayey
C. sandy-loam
D. loamy
The correct answer is option [A]
Sandy soil has large coarse particles with very little humus. Hence it is well aerated but water drains through it quickly leaving it dry.
3. An acidic soil can be improved upon by
A. sedimentation
B. leaching
C. flocculation
D. watering
The correct answer is option [C]
In an acidic soil, the mineral salts are very soluble and easily leached from top soil, out of the reach of plant roots. However, flocculation clumps soil particles together, thereby retaining its nutrient

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4. Which of the following resources is non-renewable?
A. Forest
B. Wildlife
C. Mineral deposits
D. Water
The correct answer is option [C]
5. The similarity among organisms belonging to the same group will be least within each
A. family
B. order
C. kingdom
D. species
The correct answer is option [C].
The kingdom is the highest level in the hierarchy of living things. As the levels proceed to lower levels, the variety of organism's decreases.
6. An environment could be defined as the
A. solid crust of the earth
B. part of the earth in which life exist
C. surrounding of an organism
D. First and lowest layer closest to the soil
The correct answer is option [C].
7. Energy exists in major forms.
A. 3
B. 2
C. 4

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D. 5
The correct answer is option [B].
Energy is found in different forms, such as light, heat, sound, electrical, mechanical, motion etc. There are many forms of energy, but they can all be put into two categories: kinetic and potential
8. A bacteria cell differs from eukaryotic cell because they have
A. cell wall
B. nuclear membrane
C. nuclear material
D. cell membrane
The correct answer is option [B]
9. Desert plants are usually called
A. hydrophytes
B. mesophytes
C. xerophytes
D. saprophytes
The correct answer is option [C]
10. Transpiration in plants results in the
A. closure of the stomata at night
B. continuous streaming of water through the plant
C. pale, green colouration of portions of the leaves
D. opening of stoma
The correct answer is option [B]
Water loss and photosynthesis increases osmotic pressure in the leaf; causing more water to flow into the leaf cells from the xylem vessels. This sets up a transpiration 'pull' that enables the distribution of water and dissolved minerals throughout the plant.

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- 11. What is ecology?
- A. It is the study of plants and animals in relation to their environment.
- B. It is the study of the human digestive system in relation to the environment.
- C. It is the study of plants.
- D. It is the study of plants and animal harvesting.

The correct Answer is option [A].

- 12. The abiotic factor which determines the depth to which light penetrates into a pond is \_\_\_\_\_.
- A. current
- B. turbidity
- C. wind
- D. salinity

The correct answer is option [B]

13. Which of the following effects would desertification have on the ecological balance represented in the diagram?



- A. 10 x 104 K cal obtained from the sun would decrease.
- B. 10 x 104 K cal obtained from the sun would increase.
- C. 6 x 104 K Cal obtained at level I would decrease.
- D. 3.5 x 104 K Cal obtained at level II would increase.

The correct answer is option [C]

Desertification would result in a reduction in the grass population; thus the energy obtained at the tropic level I would decrease.

14. A secchi disc is used in the determination of
A. rainfall
B. tides
C. waves
D. turbidity
The correct answer is option [D]
15. Due to food shortage, the following are factors that cause decrease in the population size except
A. natality
B. competition
C. emigration
D. mortality
The correct answer is option [A]
16. A bacteria cell differs from eukaryotic cell because they have
A. cell wall
B. nuclear membrane
C. nuclear material
D. cell membrane
The correct answer is option [B]
17. Which of the following organisms causes syphilis?
A. Mycobacterium tuberculosis
B. Bordetella pertussis
C. Treponema pallidum
D. Clostridium tetani
The correct answer is option [C]

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18. The earth's major source of energy is the
A. stars
B. sun
C. moon
D. heat
The correct answer is option [B].
19. Which of these diseases is not caused by bacteria
A. malaria
B. tuberculosis
C. pneumonia
D. tetanus
The correct answer is option [A]
Malaria is caused by the protozoa, Plasmodium sp.
20. Possession of strong adhesives is a feature of animals living in
<ul><li>20. Possession of strong adhesives is a feature of animals living in</li><li>A. sandy beaches</li></ul>
A. sandy beaches
A. sandy beaches B. rocky chores
A. sandy beaches B. rocky chores C. benthic zones
A. sandy beaches B. rocky chores C. benthic zones D. deserts
A. sandy beaches B. rocky chores C. benthic zones D. deserts
A. sandy beaches B. rocky chores C. benthic zones D. deserts The correct answer is option [C]
A. sandy beaches B. rocky chores C. benthic zones D. deserts The correct answer is option [C]  21. There are types of ecological pyramids.
A. sandy beaches B. rocky chores C. benthic zones D. deserts The correct answer is option [C]  21. There are types of ecological pyramids. A. 4

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The correct answer is option [C].

The three (3) types of ecological pyramids are; pyramid of numbers, pyramid of biomass and pyramid of energy

22. An association between the root nodules of a leguminous plant and rhizobium species, is known as
A. commensalisms
B. saprophytism
C. parasitism
D. symbiosis
The correct answer is option [D]
23. The word ecology is derived from the word
A. oikas
B. oekis
C. oikos
D. aikis
The correct Answer is option [C].
24 is a plant which grows on another plant without apparent harm to the
A. A parasite
B. An epiphyte
C. A saprophyte
D. A predator
The correct answer is option [B]
25. The conservation of natural resources can be achieved by the following except through
A. creation of national parks

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B. formation of conservation societies and agencies
C. establishment of game reserves
D. regular deforestation
The correct answer is option [D]
26. The presence of prop roots and breathing roots are features of plants found in the
A. tropical rain forest
B. fresh water swamp forest
C. mangrove forest
D. northern guinea savannah
The correct answer is option [C]
Mangrove forests are characterized by shallow, brackish water or wet soil, thus proproots and breathing roots are essential for plants to grow.
27 has the highest water-retaining capacity.
A. Clay
B. Laterite
C. Loam
D. Gravel
The correct answer is option [A]
The small size of clay particles provides a larger surface area which promotes water retention.
28. Which of the following insects has an incomplete metamorphosis during its life cycle?
A. Butterfly
B. Mosquito
C. Housefly

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D. Grasshopper
The correct answer is option [D]
29. Which one of the following diseases can be prevented by inoculation?
A. Syphilis
B. Cancer of the liver
C. Tuberculosis
D. Acquired Immune Deficiency Syndrome (AIDS)
The correct answer is option [C]
30. A group of interacting populations in a particular habitat is referred to as
A coological picho
A. ecological niche
B. biotic community
C. population
D. habitat
The correct answer is option [B].
31. A stable self-sustaining environment produced by an interaction between the
biotic and abiotic components is best described as
A. a niche
B. a community
C. an ecosystem
D. a habitat
The correct answer is option [C]
32. A constituent of the exhaust gases of motor vehicles which causes serious air pollution is
A. water vapour

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B. carbon monoxide
C. oxygen
D. ozone
The correct answer is option [B]
33. Which of the following is the least adaptive feature for arboreal life?
A. Possession of four limbs
B. Possession of claws
C. Development of a long tail
D. Counter shading of coat colour
The correct answer is option [D]
34. In a food chain, each stage in the chain is a
A. chain level
B. web level
C. consumption level
D. trophic level
The correct answer is option [D]
35 zone is not one of the major ecological zones of a marine habitat.
A. Splash
B. Wave
C. Benthic
D. Intertidal
The correct answer is option [B].

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36. The amount of energy contained in different types of food is expressed in
A. joules
B. kilogrammes
C. kilojoules
D. grammes
The correct answer is option [C].
37. Which of the following will have the least effect on the rate of change of the number of species in a population?
A. Food supply
B. Mutation
C. Predation
D. Disease
The correct answer is option [B]
38. Which of the following ecological factors causes food shortage?
A. Low rate of reproduction
B. Emigration
C. Drought
D. Topography
The correct answer is option [C]
39. Which of the following does not reduce air pollution?
A. Siting factories and power stations away from residential areas.
B. Recycling tins, cans and bottles.
C. Passing waste gasses through filters and absorbers.
D. Using lead-free petrol in cars.

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The correct answer is option [B]
Recycling tins, cans and bottles provides a form of land pollution control and conservation.
40. Terrestrial organisms, which are capable of keeping their body temperature constant within fairly close limits, are referred to as
A. thermoclines
B. homotherms
C. poikilotherms
D. eurytherms
The correct answer is option [B]
41. The non-living part of an ecosystem is known as its
A. biotic component
B. trophic level
C. abiotic component
D. biomes
The correct answer is option [C]
42. Which of the following is not a type of pyramid?
A. Pyramid of numbers
B. Pyramid of energy
C. Pyramid of biomass
D. Pyramid of food web
The correct answer is option [D].
43. Which one of the following is not a fresh water habitat?
A. Ponds

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B. Rivers
C. Lakes
D. Seas
The correct answer is option [D].
44. Competition among individuals of a population decreases the
A. number of organisms
B. survival of the fittest
C. availability of nutrient supplied
D. enlargement of the territory
The correct answer is option [C]
45. Sewage must be properly disposed to
A. avoid the smell that causes infection in people
B. spread gastro-intestinal diseases
C. prevent the out-break of water-borne diseases
D. create space for subsequent waste produced
The correct answer is option [C]
46. The condition that encourages denitrification is
A. low soil oxygen
B. high soil nitrogen
C. absence of soil bacteria
D. lightning and thunderstorm
The correct answer is option [B]
47. Which of the following major world biomes is found in Nigeria?

A. Sahel savanna

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B. Tundra
C. Desert
D. Afro-alpine vegetation
The correct answer is option [A]
48. The loss of water vapour through the aerial parts of the plant to the atmosphere is called
A. respiration
B. guttation
C. osmoregulation
D. transpiration
The correct answer is option [D]
49. Autecology is concerned with the study of
A. a group of organisms and their environment
B. a single organism and its activities in different environment
C. an individual organism and its environment
D. multicellular organisms and their interaction with one another
The correct Answer is option [C].
50. Fishes cannot survive on land because they have
A. bodies covered with scales
B. streamlined bodies
C. no lungs
D. no walking appendages
The correct answer is option [C]

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51. Bacteria and are commonly responsible for the decay of dead plants are animals.
A. viruses
B. fungi
C. earthworms
D. yeasts
The correct answer is option [B].
52. Which of the ways of controlling bilharzias can result in pollution?
A. Clearing water weeds on which the snails feed.
B. Treating infected people with drugs.
C. Preventing contamination of water by infected urine and faeces.
D. Applying chemicals to kill them.
The correct answer is option [D]
53. The abiotic factor which determines the depth to which light penetrates into a pond is
A. current
B. turbidity
C. wind
D. salinity
The correct answer is option [B]
54 is associated with aquatic habitats.
A. Temperature
B. Light intensity
C. Turbidity
D. All of the above
The correct answer is option [D]

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55. One distinctive feature in the life cycle of ulva is that they exhibit
A. alternation of generations
B. vegetative reproduction
C. asexual reproduction
D. sexual reproduction
The correct answer is option [A]
Complex alga like ulva plant are made up of two independent, dominant plants: the gametophyte and the sporophyte. This is described as alternation of generation.
56. Which group is involved in the water cycle?
A. Evaporation, transpiration and precipitation
B. Evaporation, photosynthesis and transpiration
C. Evaporation, burning and precipitation
D. Evaporation, volcanic action and transpiration
The correct answer is option [A]
57. Pneumatophores are essential for
A. nutrition
B. movement
C. breathing
D. growth
The correct answer is option [C]
Pneumatophores are erect roots that extend from the underground root system. During the day, they enable the root system obtain oxygen.
58. Which of the following is not a behavioral adaptation used by social animals?  A. Hibernation
B. Mimicry

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C. Migration
D. Aestivation
The correct answer is option [B]
Mimicry is a form of adaptive colouration.
59. Which one of the following options is the most important pollutant of the marine environment in Nigeria?
A. Insecticides
B. Sewage
C. Oil spill
D. Inorganic fertilizers
The correct answer is option [C]
60. The law of thermodynamics states that in any conversion of energy from one form to another, there is always a decrease in the amount of useful energy.
A. second
B. first
C. Third
D. fourth
The correct answer is option [A].
61. The study of the organisms and environment of an abandoned farmland is the ecology of
A. an ecosystem
B. a population
C. a species
D. a habitat
The correct answer is option [A]

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62. Water loss is most rapid in soil.
A. sandy
B. clayey
C. sandy-loam
D. loamy
The correct answer is option [A]
Sandy soil has large coarse particles with very little humus. Hence it is well aerated but water drains through it quickly leaving it dry.
63. The gas produced during decomposition of matter is
A. hydrogen sulphide
B. carbon monoxide
C. chlorine
D. oxygen
The correct answer is option [A]
64. Which sequence represents the correct order of organisms in a food chain?
A. Toad
B. Mucuna
C. Grasshopper
D. Snake
The correct answer is option [B]
65. Energy exists in major forms.
A. 3
B. 2
C. 4
D. 5

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The correct answer is option [B].

Energy is found in different forms, such as light, heat, sound, electrical, mechanical, motion etc. There are many forms of energy, but they can all be put into two categories: kinetic and potential.

66. Which of these instruments can be used to perform an experiment on geotropism?
A. Potentiometer
B. Cup anemometer
C. Klinostat
D. Kymograph
The correct answer is option [C]
67. Desert plants are usually called
A. hydrophytes
B. mesophytes
C. xerophytes
D. saprophytes
The correct answer is option [C]
68. Micro-organisms are used in the production of
A. fossil fuels
B. culture media
C. antibiotics
D. minerals
The correct answer is option [C]
69. Which of the following is not an example of a free living nitrogen bacteria?
A. Azotobacter

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B. Clostridium
C. Nostoc
D. Nitrosomonas
The correct answer is option [D].
70. Forest conservation includes the following except
A. prevention of bush-fires
B. extensive felling of forest-trees
C. replacing harvested trees by planting seedling
D. selective exploitation of forest trees
The correct answer is option [B]
71. Which of the following factors is not associated with aquatic habitats?
A. Salinity
B. Turbidity
C. Temperature
D. Edaphic
The correct answer is option [D]
72 energy is derived from chemical energy during cellular respiration.
A. Heat
B. Sound
C. Electrical
D. Mechanical
The correct answer is option [A].
73. Which of the following is an effect of water pollution?
A. Hepatitis

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B. Cancer
C. Tuberculosis
D. AIDS
The correct answer is option [A].
74. Which one of the following is not a major component of fertilizer?
A. Nitrogen
B. Phosphorus
C. Magnesium
D. Potassium
The correct answer is option [C].
75. Which one of the following gases is not produced by automobiles?
A. Nitrogen monoxide
B. Nitrogen dioxide
C. Nitric acid
D. Carbon dioxide
The correct answer is option [C].
76. The most effective method of dealing with non-biodegradable pollutants is by
A. dumping
B. recycling
C. incineration
D. burying
The correct answer is option [B]

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78 is often described as environmental biology.
A. Ecosystem
B. Ecology
C. Ecological
D. Ecologist
The correct Answer is option [B].
79. In a savanna ecosystem, the abiotic factors include
A. sun, temperature and sandy soil
B. water, temperature and soil
C. minerals, oxygen and crude
D. water, soil and grasses
The correct answer is option [B]
80. In a food chain, each succeeding level in a forward direction represents
A. an increase in the number of individuals
B. a decrease in the number of individuals
C. an increase in the biomass of individuals
D. a gain in the total energy being transferred
The correct answer is option [B]
81. Which of the following instrument is used to measure the speed of a stream?
A. Simple float
B. Secchi disc
C. Quadrant frame
D. Rain gauge
The correct answer is option [A]

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82. All the available places on earth which support life constitute the
A. lithosphere
B. atmosphere
C. biosphere
D. hydrosphere
The correct answer is option [C]
83. Transparency of water is measured using a
A. secchi disc
B. whirling hygrometer
C. hydrometer
D. wind vane
The correct answer is option [A].
84. Which of these has the most complex level of organization?
A. Euglena
B. Hydra
C. Heart
D. Virus
The correct answer is option [C]
85. Which of the following is used for the collection of small insects from soil, leaf litter and crevices?
A. Pooter
B. Quadrant
C. Sweep net
D. Drag net
The correct answer is option [A]

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86. Denitrification is defined as the process of
A. breakdown of nitrogen in the atmosphere
B. addition of nitrogen to the soil
C. returning nitrogen into the atmosphere
D. removal of nitrogen from the atmosphere
The correct answer is option [C]
87. The most important environmental factor which epiphytes in the rain forest compete for is
A. water
B. nutrient
C. light
D. space
The correct answer is option [B]
88. Which of the following instruments is not used in measuring abiotic factors in any habitat?
A. Microscope
B. Thermometer
C. Hygrometer
D. Wind vane
The correct answer is option [A]
89. In an ecosystem the organism which changes light energy into stored chemical energy is the
A. consumer
B. decomposer
C. producer
D. carnivore
The correct answer is option [C]

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90. Which of the following accurately represents an aquatic food chain?
A. Paramecium phytoplankton prawn water flea tilapia shark.
B. Water flea Paramecium phytoplankton prawn tilapia shark.
C. Phytoplankton water flea Paramecium prawn shark tilapia.
D. Phytoplankton Paramecium water flea prawn tilapia shark.
The correct answer is option [D]
91. Rabbits cannot survive in an aquatic habitat because they have
A. fore-and hind-limbs
B. no gills
C. no eye spot
D. no scales
The correct answer is option [B]
92. Which of the following resources is non-renewable?
A. Forest
B. Wildlife
C. Mineral deposits
D. Water
The correct answer is option [C]
93. An acidic soil can be improved upon by
A. sedimentation
B. leaching
C. flocculation
D. watering
The correct answer is option [C]
In an acidic soil, the mineral salts are very soluble and easily leached from top soil, out of the reach of plant roots. However, flocculation clumps soil particles together,

thereby retaining its nutrients.

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94. The change of colour by a chameleon to that of the environment is an example of
A. animal pretense
B. protective colouration
C. mimicry
D. warning colouration
The correct answer is option [B]
Protective colouration, also known as concealing colouration helps an animal escape predation.
95. During combustion, carbon is oxidized to
A. carbon (iv) oxide
B. trioxocarbonate iv
C. oxygen
D. nitrogen
The correct answer is option [A].
96. Abiotic components include all except
A. fish
B. water
C. heat
D. pressure
The correct answer is option [A].
In biology, abiotic components are non-living chemical and physical factors in the environment such as faeces, urine (and of course carbon dioxide, oxygen, and water from respiration)
97. The major functional unit of an ecosystem is the
A. total energy flowing through the ecosystem

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B. population
C. productivity
D. trophic level
The correct answer is option [B].
98. A represents changes in energy flow between organisms in a habitat.
A. pyramid of biomass
B. pyramid of numbers
C. pyramid of energy
D. food chain
The correct answer is option [C]
99. The gaseous chemicals used as coolants in air conditioners and refrigerators is known as
A. chlorofluorocarbons
B. chlorofluorocarbons
C. fluorocarbons
D. chlorocarbons
The correct answer is option [A].
100. Ecological succession ends with the formation of a stable
A. niche
B. population
C. pioneer community
D. climax community
The correct answer is option [D]

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101. Which of the following processes will not introduce carbon dioxide into the atmosphere?
A. Breathing
B. Photosynthesis
C. Respiration
D. Putrefaction
The correct answer is option [B]
102. Which of the following statements best explains the term aestivation?
A behavioural pattern of animals involving spending the hot dry season in a sleep-like, torpid state.
B. A behavioural pattern of animals involving long journeys from one place to another
C. A behavioural pattern of animals involving spending the winter in a sleep-like, inactive, torpid state.
D. A behavioural pattern of animals involving scaring off predators.
The correct answer is option [A]
103. A habitat with low rainfall, very low humidity, and exposed soil with little plant cover, few trees and shrubs is likely to be
A. a rain forest
B. a mangrove forest
C. a desert
D. a swamp
The correct answer is option [C]
104. A population is best described as
A. a group of the same species of organisms living together
B. a group of animals and plants living together
C. a group of insect and grasses

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D. different species of wild animals
The correct answer is option [A]
105. Which of the following is not a way of reducing air pollution?
A. Siting factories and power stations away from residential areas
B. Recycling tins, cans and bottles
C. Passing waste gases through filters and absorbers
D. Using lead-free petrol in cars
The correct answer is option [B]
106. The following are carbon cycling processes except
A. combustion
B. decay
C. transpiration
D. respiration
The correct answer is option [C]
Transpiration, which is the loss of water from the leaf surface of plants, is a water cycling process.
107 is the study of interactions of organisms with their physical environment and with each other.
A. Ecology
B. Biosphere
C. Lithosphere
D. Atmosphere
The correct answer is option [A].

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108. Northern guinea savanna is associated with
A. abundant rainfall
B. abundant trees and shrubs
C. soil with very little plant cover
D. abundant grasses
The correct answer is option [D]
109. Which of the following helps a hydrophyte such as the water lily solve the problem of buoyancy?
A. Long stems and flower stalks
B. Dissected leaves
C. Thick cuticles
D. Large, well-developed airspaces
The correct answer is option [D]
110. The following conditions form the basis of competition in a habitat except
A. food
B. body structure
C. reproductive mate
D. light
The correct answer is option [B]
111. What is ecology?
A. It is the study of plants and animals in relation to their environment.
B. It is the study of the human digestive system in relation to the environment.
C. It is the study of plants.
D. It is the study of plants and animal harvesting.
The correct Answer is option [A].

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112. Which of the following environmental factors is not considered in a terrestrial habitat?
A. Temperature
B. Sunlight
C. Humidity
D. Turbidity
The correct answer is option [D]
Turbidity is caused by the presence of suspended matter in water; thus this does not apply in a terrestrial habitat.
113. Viruses are pathogens of the following diseases except
A. measles
B. smallpox
C. poliomyelitis
D. tuberculosis
The correct answer is option [D]
Tuberculosis is caused by Mycobacterium tuberculosis.
114. Trees in savannah habitats usually have heavy thick bark which mainly
A. reduces the rate of transpiration
B. protect them from the scorching sun
C. protect them from heavy winds
D. resist bush fires
The correct answer is option [A]
115. A certain savannah grasshopper changes colour from green during the rainy season; to brown, during the dry season; and black after the dry season bush fires. The reason for these colour changes is that the

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A. grasshopper is getting older
B. environmental temperature is changing
C. grasshopper is avoiding predators
D. is frequently moulting
The correct answer is option [C]
116. Which of the following is transmitted through mosquito bites?
A. Filariasis
B. Typhus
C. Plague
D. Schistosomiasis
The correct answer is option [A]
Filariasis is transmitted by a wide range of mosquitoes including Anopheles, Culex quinquefasciatus, Aedes and Mansonia.
117. The similarity among organisms belonging to the same group will be least within each
A. family
B. order
C. kingdom
D. species
The correct answer is option [C].
The kingdom is the highest level in the hierarchy of living things. As the levels proceed to lower levels, the variety of organisms' decreases.
118. Which one of the following is not a characteristic of fresh water habitat?
A. Low salinity
B. Low oxygen concentration

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D. Variation in temperature
The correct answer is option [B].
Low oxygen concentration is a characteristic of estuarine habitats
119. Ecology is best defined as the study of
A. the characteristics of living organisms in an environment
B. the inter-relationship between living organisms and their environment
C. the interaction that occurs between the molecules that make up living organisms
D. habitats and wildlife
The correct answer is option [B]
120. Which of the following may not contribute to environmental pollution?
A. Recycled water
B. Industrial waste
C. Waste disposal
D. Smoke
The correct answer is option [A]
121. Which of the following organisms can be found in fresh water habitat?
A. Sargassum and dogfish
B. Red mangrove and pond skater
C. Sargassum and red mangrove
D. Spirogyra and pond skater
The correct answer is option [D]
122. Which of the following spreads malaria in Nigeria?
A. Anopheles mosquito

B. Culex mosquito

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C. Tse-tse fly
D. Housefly
The correct answer is option [A]
123. The adaptations for water conservation in plants include the following except
A. scales in fishes
B. scales on leaves
C. thick cuticle
D. spine
The correct answer is option [B]
124. There are types of food chain.
A. 1
B. 3
C. 2
D. 4
The correct answer is option [C].
The two types of food chains are aquatic (water related) and terrestrial (land related)
125. Which of the following takes place when a person's body temperature rises above 370C?
A. Sweating and vasoconstriction
B. Panting and vasoconstriction
C. Sweating and vasodilation
D. Panting and vasodilation
The correct answer is option [C]
As sweat evaporates, heat from the body is used up, thus cooling the body. While

vasodilation causes a large volume of blood to flow near the surface of the skin so that heat is lost to the surroundings via conduction, convection and radiation.

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126. Which of the following is not a factor responsible for population sizes?
A. Natality
B. Feeding
C. Immigration
D. Mortality
The correct answer is option [B].
127. The unidirectional movements of water is called
A. water current
B. tides
C. waves
D. erosion
The correct answer is option [C].
128. A relationship in which one of the organism benefits while the other neither benefits nor is harmed is known as
·
benefits nor is harmed is known as
benefits nor is harmed is known as  A. co-operation
benefits nor is harmed is known as  A. co-operation  B. commensalism
benefits nor is harmed is known as  A. co-operation  B. commensalism  C. mutualism
benefits nor is harmed is known as  A. co-operation  B. commensalism  C. mutualism  D. saprophytism
benefits nor is harmed is known as  A. co-operation  B. commensalism  C. mutualism  D. saprophytism
benefits nor is harmed is known as  A. co-operation  B. commensalism  C. mutualism  D. saprophytism  The correct answer is option [B].
benefits nor is harmed is known as  A. co-operation  B. commensalism  C. mutualism  D. saprophytism  The correct answer is option [B].
benefits nor is harmed is known as  A. co-operation  B. commensalism  C. mutualism  D. saprophytism  The correct answer is option [B].  129. Which one of the following is not an ecological factor to all habitats?  A. Oxygen
benefits nor is harmed is known as  A. co-operation  B. commensalism  C. mutualism  D. saprophytism  The correct answer is option [B].  129. Which one of the following is not an ecological factor to all habitats?  A. Oxygen  B. Light

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## 130. What phenomenon in the ecosystem does the diagram illustrate?



- A. Pyramid of numbers
- B. Food web among organisms
- C. Pyramid of energy
- D. Pyramid of biomass

The correct answer is option [C]

The diagram represents the rate of flow of food energy through each tropic level in the food chain.

## **TOPIC: CLASSIFICATION OF LIVING THINGS**

DIRECTION: Choose the correct answer from the lettered options.

1. Living things compete for all except
A. offspring
B. water
C. space
D. mate
The correct answer is option [A]
2. Which of the following is incorrect about auxins?
A. They are manufactured by plants.
B. They are used at the site of production.
C. They are normally present in minute quantities in the cells of plants.
D. They regulate growth rate in plants.
The correct answer is option [B]
The correct answer is option [B]
The correct answer is option [B]  3. The exoskeleton of arthropoda is made of
3. The exoskeleton of arthropoda is made of
3. The exoskeleton of arthropoda is made of  A. chitin
3. The exoskeleton of arthropoda is made of  A. chitin  B. cartilage
3. The exoskeleton of arthropoda is made of  A. chitin  B. cartilage  C. xylem
3. The exoskeleton of arthropoda is made of  A. chitin  B. cartilage  C. xylem  D. bones
3. The exoskeleton of arthropoda is made of  A. chitin  B. cartilage  C. xylem  D. bones
3. The exoskeleton of arthropoda is made of  A. chitin  B. cartilage  C. xylem  D. bones  The correct answer is option [A]

C. Kingdom Protista

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D. All of the above
The correct answer is option [D]
5. Which is the correct animal classification?
A. Kingdom-Division-Order-Class-Family-Genus-Species
B. Kingdom-Phylum-Class-Order-Family-Genus-Species
C. Kingdom-Division-Class-Order-Family-Genus-Species
D. Kingdom-Phylum-Family-Class-Order-Genus-Species
The correct answer is option [B]
6. All are examples of fungi except
A. Mushroom
B. Rhizopus
C. Mucor
D. Lichens
The correct answer is option [D]
7 provides the basis for growth of organisms.
A. Food
B. Light
C. Water
D. Good environment
The correct answer is option [A]
8 is defined as a systematic process of making enquiry about living and non-living things in our environment.
A. Science
B. Biology

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C. Research
D. Experiment
The correct answer is option [A]
9. Which of these Platyhelminthes is free living?
A. Planarian
B. Tapeworm
C. Liver fluke
D. Blood fluke
The correct answer is option [A]
Planarians are free-living and primarily carnivorous.
10. The following are examples of schizophyta except
A. bacteria
B. viruses
C. nostoc
D. lichens
The correct answer is option [D]
11. How many classes does the plant kingdom, spermatophyte have?
A. 1
B. 2
C. 3
D. 4
The correct answer is option [B]

Spermatophyte comprises Angiosperms and Gymnosperms.

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12. Spiders, mites, scorpions and ticks are examples of
A.Insecta
B. Arachnida
C. Crustaceans
D. Myriapoda
The correct answer is option [B]
13. The characteristic "irritability" can also be called
A. irritation
B. sensation
C. infection
D. sensitivity
The correct answer is option [D]
14. Food in plants is stored mainly as
A. glycogen
B. fat
C. fibre
D. starch
The correct answer is option [D]
15. Biology is basically grouped into how many main branches?
A. 2
B. 3
C. 4
D. 5
The correct answer is option [A]

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16. Biology can simply be defined as the
A. study of science
B. study of life
C. characteristics of life
D. all of the above
The correct answer is option [B]
17. Which of these organisms is both holozoic and autotrophic?
A. Spirogyra
B. Paramecium
C. Euglena
D. Amoeba
The correct answer is option [C]
Euglena shows both animal and plant features.
18. A virus can sometimes be regarded as a living organism because it
A. causes disease in plants and animals
B. exists in a variety of shapes
C. reproduces in living cells
D. is easily visible with the aid of an electron microscope
The correct answer is option [C]
19. Which of these is not a characteristic of animals?
A. Food is stored mainly as glycogen and fat.
B. Their cells have large vacuoles.
C. They possess well developed excretory system.
D. Their cells have thin flexible living cell membrane.

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The correct answer is option [B]

20. The body of arthropoda are divided into
A. head, stomach and abdomen
B. head, thorax and abdomen
C. head, abdomen and leg
D. front, back and middle
The correct answer is option [B]
21. The system of classification of living things was introduced by
A. Carolus Linnaeus
B. Carolus Kent
C. Richard Van der Hoff
D. Linus Linnaeus
The correct answer is option [A]
22. Which of these presentations is incorrect?
A. Homo sapiens
B. Panthra Leo
C. Rattus rattus
D. Zea Mays
The correct answer is option [D]
23. The group Mollusca is characterized by the presence of
A. jointed appendages
B. star-shaped bodies
C. backbones
D. soft, unsegmented bodies
The correct answer is option [D]
Molluscs have soft unsegmented bodies with a muscular foot which may be adapted for crawling, burrowing or swimming.

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24 is the largest phylum in the animal kingdom?
A. Mollusca
B. Mammalia
C. Arthropoda
D. Protozoa
The correct answer is option [C]
25. Which of the following is not a characteristic of living things?
A. Nutrition
B. Movement
C. Sleeping
D. Growth
The correct answer is option [C]
26. Science can be applied to all areas of life.
A. True
B. False
The correct answer is option [A]
27. In binomial nomenclature, the first name is usually the
A. kingdomic name
B. generic name
C. classic name
D. specific name
The correct answer is option [B]
28. A theory can be called a law when
20. A theory can be called a law when

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B. the hypothesis is true
C. it has been extensively tested and proven to be true
D. a hypothesis is repeatedly correct within the limits of available evidence
The correct answer is option [C]
29. Arthropods are divided into classes.
A. 1
B. 2
C. 3
D. 4
The correct answer is option [D]
30. When does the Euglena carry out holozoic nutrition?
A. In the absence of sunlight
B. When the chloroplast is deplited
C. When it's mouth and gullet are not functioning
D. All of the above
The correct answer is option [A]
31. Which of these is not an example of insecta?
A. Housefly
B. Spider
C. Grasshopper
D. Butterfly
The correct answer is option [B]
The spider is an arachnid.

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32. Which of these has true roots, stems and leaves?
A. Bryophyta
B. Thallophyta
C. Schizophyta
D. Pteridophyta
The correct answer is option [D]
33. Which of these is not an example of a Protozoa?
A. Amoeba
B. Paramecium
C. Hydra
D. Trypanosome
The correct answer is option [C]
34. The phylum does not consist of worms?
A. Platyhelminthes
B. arthropoda
C. nematode
D. Annelida
The correct answer is option [B]
Arthropoda consists of crustaceans, insects, arachnids, and myriapods.
35. All living organisms have the following characteristics except
A. photosynthesize
B. respire
C. move
D. feed

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The correct answer is option [A]
Only organisms that possess chloroplasts, photosynthesis.
36. Division is to plants as is to animals.
A. kingdom
B. genera
C. order
D. phylum
The correct answer is option [D]
37. Animals move their entire body while plants move
A. their whole body
B. their upper body
C. parts of their body
D. their lower body
The correct answer is option [C]
38. Which of the scientific names is correct?
A. Animalia mammalia
B. Hominidae Felidae
C. Homo Felidae
D. Homo sapiens
The correct answer is option [D]
39. In a dicot leaf, guard cells differ from other epidermal cells because they
A. have no definite shape
B. lack nuclei
C. are smaller

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D. contain chloroplasts
The correct answer is option [D]
40. What is the difference between viviparous and oviparous animals? The latter
A. give birth to live offspring
B. lay unfertilized eggs
C. protects eggs from predators
D. lay and brood over egg
The correct answer is option [D] Oviparous animals shed their embryo into the environment to complete their development and hatch out as young.
41 are also classified as seed-bearing flowering plants.
A. Spermatophytes
B. Schizophyta
C. Thallophyta
D. Bryophyta
The correct answer is option [A]
42. Which of these is not true about plants?
A. Most plants carry out photosynthesis.
B. They have no fixed number of parts and branching is continuous.
C. Gasous exchange occurs throughout the entire body.
D. They possess special excretory systems.
The correct answer is option [D]
43. Which of these parts of the Euglena makes it an animal?
A. Pyrenoids
B. Chloroplasts

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C. Nucleus
D. Contractile vacuole
The correct answer is option [D]
44. Which of these is not true about animals?
A. Growth is indefinite and apical.
B. They are holozoic feeders.
C. They are active and have organs of movement.
D. They possess specialized sense organs.
The correct answer is option [A]
45. Which of these is not a characteristic of plants?
A. They store food as glycogen.
B. Growth is indefinite and apical.
C. They are not active and have no organ of movement.
D. They possess no special sense organ.
The correct answer is option [A]
46. The function of the clitellum in the earthworm is to
A. aid digestion
B. prevent desiccation
C. assist locomotion
D. secrete cocoon
The correct answer is option [D]
47. The binomial nomenclature is a combination of names.
A. 2
B. 3

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C. 4
D. 5
The correct answer is option [A]
48. The following are examples of myriapoda except
A. earthworm
B. centipedes
C. millipedes
D. all of the above
The correct answer is option [A]
The earthworm is an annelid.
49. The fibrous root system is typical to
A. dicots
B. monocots
C. gymnosperms
D. ferns
The correct answer is option [B]
50. Which of the following structures differentiates an animal cell from a plant cell?
A. Ribosome
B. Cell membrane
C. Chloroplast
D. Mitochondrion
The correct answer is option [C]
51. The following make up kingdom Protista except
A. protophyta

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B. protozoa
C. planktons
D. none of the above
The correct answer is option [C]
52. The Greek word 'logos' means
A. life
B. help
C. word
D. study
The correct answer is option [D]
53 is a permanent increase in size and mass of an organism.
A. Locomotion
B. Growth
C. Elongation
D. Population
The correct answer is option [B]
54. Living things respond to the following stimuli except
A. touch
B. smell
C. sound
D. music
The correct answer is option [D]
55. When can a concept become a theory?
A. When the hypothesis is repeatedly correct within the limits of available vidence.

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B. When a theory has been extensively tested and proven to be true.
C. When a good scientist conducts a research and is able to prove the authenticity of the research result.
D. All of the above.
The correct answer is option [A]
56. The basic unit of classification of living things is the
A. kingdom
B. order
C. family
D. species
The correct answer is option [D]
57. Which of the following structures is not found in a female agama lizard?
A. Nuchal crest
B. Eardrum
C. Gular fold
D. Nasal scale
The correct answer is option [A]
The nuchal crest is a crest on the nape of the neck.
58. Protozoa belongs to the group of organisms called
A. prostista
B. coelenterate
C. schizothymes
D. pseudopodia

The correct answer is option [A]

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59. Which of the following is a characteristic of living things?
A. Movement
B. Nutrition
C. Irritability
D. All of the above
The correct answer is option [D]
60. Which one of the following is the correct plant classification?
A. KINGDOM-DIVISION-ORDER-CLASS-FAMILY-GENUS-SPECIES
B. KINGDOM-PHYLUM-CLASS-ORDER-FAMILY-GENUS-SPECIES
C. KINGDOM-DIVISION-CLASS-ORDER-FAMILY-GENUS-SPECIES
D. KINGDOM-DIVISION-FAMILY-CLASS-ORDER-GENUS-SPECIES
The correct answer is option [C]
61. All are examples of Annelida except
A. earthworm
B. leech
B. leech C. tube worms
C. tube worms
C. tube worms D. tapeworms
C. tube worms D. tapeworms The correct answer is option [D]
C. tube worms D. tapeworms The correct answer is option [D]
C. tube worms  D. tapeworms  The correct answer is option [D]  Tapeworms are in the phylum Platyhelminthes.
C. tube worms  D. tapeworms  The correct answer is option [D]  Tapeworms are in the phylum Platyhelminthes.  62. The major groups of plant kingdom include the following except
C. tube worms  D. tapeworms  The correct answer is option [D]  Tapeworms are in the phylum Platyhelminthes.  62. The major groups of plant kingdom include the following except  A. tracheophyta

The correct answer is option [D]

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63 In fungi, food is stored as
A. starch
B. fat
C. fibre
D. glycogen
The correct answer is option [D]
64. Cotyledons refer to the number of
A. seeds
B. seed leaves
C. fruits
D. roots
The correct answer is option [B]
65. In an angiosperm root, the xylem is
A. in a separate bundle from the phloem
B. surrounded by the phloem
C. above the phloem
D. around the phloem
The correct answer is option [B]
66. Which of the following belongs to the group nematodes?
A. Threadworms
B. Hookworms
C. Filarial worms
D. All of the above
The correct answer is option [D]

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Nematodes are roundworms with cylindrical bodies.

6/. Which of these is not an example of a coelenterata?
A. Hydra
B. Trypanosome
C. Jelly-fish
D. Coral polyps
The correct answer is option [B]
68. If an animal has scales, teeth, nerves and backbone, then the animal is likely to be a
A. toad
B. bird
C. lizard
D. rat
The correct answer is option [C]
69. Which is the correct way of writing scientific names?
(I) Italicizing the names only
(II) Underlining or italicizing the names
(III) Writing the first name with the initial letters in capitals and the second name in small letters.
A. I only
B. II only
C. II and III
D. I and II
The correct answer is option [C]
70. Angiosperms are divided into which of these two classes?
A. Dicotyledons and Monocotyledons

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B. Monocotyledons and Tricotyledons
C. Monocotyledons and Bicotyledons
D. Dicotyledons and Bicotyledons
The correct answer is option [A]
71. In the egg of a bird, the embryo is located in the
A. chalaza
B. yolk
C. albumen
D. embryo disc
The correct answer is option [B]
The yolk provides food (mainly fats and proteins) for the embryo.
72. Animals are divided into two main groups namely and
A. humans and animals
A. humans and animals  B. mammals and primates
B. mammals and primates
B. mammals and primates C. vertebrates and invertebrates
B. mammals and primates C. vertebrates and invertebrates D. unicellular and multicellular
B. mammals and primates C. vertebrates and invertebrates D. unicellular and multicellular
B. mammals and primates C. vertebrates and invertebrates D. unicellular and multicellular The correct answer is option [C]
B. mammals and primates C. vertebrates and invertebrates D. unicellular and multicellular The correct answer is option [C]  73. Both algae and mosses contain
B. mammals and primates C. vertebrates and invertebrates D. unicellular and multicellular The correct answer is option [C]  73. Both algae and mosses contain A. chlorophyll
B. mammals and primates C. vertebrates and invertebrates D. unicellular and multicellular The correct answer is option [C]  73. Both algae and mosses contain A. chlorophyll B. stem

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74. Which of these is not a characteristic of angiosperms?
A. They are vascular plants.
B. They have well developed and complete flowers.
C. They are plants with naked seeds.
D. They are mainly terrestrial plants.
The correct answer is option [C] Angiosperms bear seeds which are protected within fruits.
75. In the Binomial Nomenclature, the second name is usually the
A. kingdomic name
B. generic name
C. classic name
D. specific name
The correct answer is option [D]
76. Peripheral arrangement of vascular tissues in dicots is a characteristic of the internal structure of the
A. leaf
B. petiole
C. stem
D. root
The correct answer is option [C]
77 is the basic unit of biological classification in which the
Organisms interbreed among themselves only.
A. Species
B. Family
C. Genus

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D. Order
The correct answer is option [A]
78. The Greek word 'bios' means
A. study
B. help
C. life
D. biology
The correct answer is option [C]
79. What is the mode of nutrition for the mushroom?
A. Parasitic mode of nutrition
B. Saprophytic mode of nutrition
C. Chemotrophic mode of nutrition
D. Symbiotic mode of nutrition
The correct answer is option [B]
80. Which one of the following parts of the Euglena enables it to carry out autotrophic nutrition?
A. Pellicle
B. Myoneme
C. Chloroplast
D. Gullet
The correct answer is option [C]
81. Spirogyra reproduces vegetatively by
A. spore production
B. fragmentation

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C. multiple fission
D. budding
The correct answer is option [B
82. Tapeworm has a simple brain?
A. True
B. False
The correct answer is option [A]
83. Which of these is a mollusc?
A. Octopus
B. Ringworm
C. planarian
D. Liver fluke
The correct answer is option [A]
84. Another name for liver fluke (flatworm) is
A. Schistosoma
B. Fasciola
C. Hydra
D. Trypanosome
The correct answer is option [B]
85. Which of these is an example of Platyhelminthes?
A. Hydra
B. Trypanosome
C. Tapeworm

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D. Threadworms

The correct answer is option [C]
The phylum Platyhelminthes consists of flatworms.
86. The stages of life for all living things are
A. birth growth reproduction decline
B. birth growth maturity decline death
C. death nutrition birth reproduction
D. movement nutrition reproduction respiration growth
The correct answer is option [B]
87. Which of these has a true body cavity or coelom?
A. Coelenterate
B. Protozoa
C. Platyhelminthes
D. Annelida
The correct answer is option [D]
88. Which of these has a true body cavity or coelom?
A. Coelenterate
B. Protozoa
C. Platyhelminthes
D. Annelida
The correct answer is option [D]
89 is an important characteristic of green plants.
A. Specialized sense organs
B. Motility
C. Autotrophic nutrition

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D. Rapid response to stimuli
The correct answer is option [C]
90. In order of development, which of these plant kingdoms is the most developed?
A. Pteridophyta
B. Schizophyta
C. Spermatophyte
D. Thallophyta
The correct answer is option [D]
91. Another name for blood fluke is
A. Schistosoma
B. Fasciola
C. planarian
D. Leech
The correct answer is option [A]
92. Which of these is not an algae?
A. Penicillium
B. Chlamydomonas
C. Spirogyra
D. Volvox
The correct answer is option [A]
93. Heterotrophic nutrition is a characteristic of the following organisms' except organisms
A. commensal
B. holophytic

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C. mutualistic
D. holozoic
The correct answer is option [B]
Holophytic organisms include all green plants that make their own food.
94. Which one of these organisms can be referred to as both a living and a non-living organism?
A. Man
B. Euglena
C. Paramecium
D. Virus
The correct answer is option [D]
95. A faster colour change of a dry cobalt chloride paper affixed to the lower surface of a leaf than the upper one indicates that
A. sunlight slows down water loss from the upper surface
B. the lower surface of the leaf has more stomata
C. sunlight causes the stomata on the upper surface to close
D. there are no stomata on the upper surface of a leaf
The correct answer is option [B]
96. Everything in the world can be classified into and
A. living things, dead things
B. living things, non-living things
C. animate things, living things
D. inanimate things, non-living things
The correct answer is option [B]

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97. The following are examples of thallophytes except
A. fungi
B. algae
C. lichens
D. bacteria
The correct answer is option [D]
98. In the order of classification of living things, which one of these is the first?
A. Phyla
B. Kingdom
C. Divisions
D. Family
The correct answer is option [B]
99. Which of the following plants is not carnivorous?
A. Picher plants
B. Mistletoes
C. Bladderwort
D. Sundew
The correct answer is option [B]
Mistletoes exist as external parasites on other plants.
100. Which of the following is incorrect about rhizopus or mucor?
A. It is a fungus.
B. It has non-septate hyphae.
C. It undergoes sexual and asexual reproduction.
D. It bears spores in sporangia.
The correct answer is option [C]

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101	are the most complex green plants.
A. Gymnosp	erms
B. Thallophy	rtes
C. Angiospe	rms
D. Bryophyte	es
The correct a	answer is option [C]
100 Which o	f those werms is beneficial to man?
	f these worms is beneficial to man?
A. Hookworm	
B. Tapeworm	
C. Roundwor	
D. Earthworm	1
The correct a	answer is option [D]
	ng of earthworms improves soil structure, mixes and tills the soil, aids ation and increases nutrient availability for plants.
103. Which	of these is the most important characteristics of living organisms?
A. Reproduc	tion
B. Nutrition	
C. Movemen	t
D. All of the a	above
The correct a	answer is option [D]
104. In taxon	omic rank, which of the following is the highest rank?
A. Class	
B. Kingdom	
C. Phylum	
D. Species	
The correct a	answer is option [B]

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105. Phyla is to animals as is to plants.
A. kingdom
B. genera
C. species
D. division
The correct answer is option [D]
106 is common to a typical animal cell and a typical plant cell?
A. Cellulose cell wall
B. Chlorophyll
C. Centrally placed nucleus
D. Cell membrane
The correct answer is option [D]
107 is the study of plants and animals.
A. Life
B. Biology
C. Science
D. Research
The correct answer is option [B]
108. Which of these parts of the Euglena makes it a plant?
A. Paramylum granules
B. Eye spot
C. Contractile vacuole
D. Nucleus
The correct answer is option [A]

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109 are formed when algae and fungi exist together.
A. Fungolis
B. Lichens
C. Funalga
D. Bacteria
The correct answer is option [B]
110. The tap root system is typical to
A. dicots
B. monocots
C. gymnosperms
D. ferns
The correct answer is option [A]
111. Which of these plant kingdoms have roots, stems or leaves?
A. Spermatophyte
B. Pteridophyta
C. Schizophyta
D. Thallophyta
The correct answer is option [D]
112. Nematodes are also known as
A. flatworms
B. earthworms
C. hookworms
D. roundworms
The correct answer is option [D]

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113. Plant classification was published in the year
A. 1707
B. 1778
C. 1753
D. 1758
The correct answer is option [C]
114. The jointed appendages of arthropods are used for all of the following except
A. feeding
B. movement
C. reproduction
D. excretion
The correct answer is option [D]
115. The following are examples of crustaceans except
A. crab
B. shrimps
C. lobsters
D. periwinkles
The correct answer is option [D]
Periwinkles are molluscs.
116. A major difference between plants and animals is that
A. movement in animals is free but limited in plants
B. there is indefinite growth in animals
C. animals consume inorganic materials as food, while plants consume organic materials

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D. animals give up carbon dioxide as a waste product of respiration while plants do not
The correct answer is option [A]
117. Which of the following is not true of animal cells?
A. Chloroplasts are present
B. Cytoplasm is present
C. Cell wall is absent
D. Vacuoles are present
The correct answer is option [A]
118. Which one of these is the correct hierarchical arrangement?
A. KINGDOM-PHYLUM-CLASS-DIVISION-FAMILY-GENUS-ORDER
B. KINGDOM-PHYLUM-CLASS-ORDER-FAMILY-GENUS-SPECIES
C. FAMILY-KINGDOM-COMPOUND-GENUS-SPECIES-PHYLUM-CLASS
D. KINGDOM-CLASS-DIVISION-GENUS-SPECIES-PHYLUM-CLASS
The correct answer is option [B]
119. Which of these characteristics makes virus a living organism?
A. It is microscopic in nature.
B. Its characteristics can be transferred from one generation to the next.
C. It assumes a crystalline form in a non-living medium.
D. It causes deadly and transferable disease like other microorganisms.
E. All of the above
The correct answer is option [B]
120. Invertebrates are divided into groups.
A. 2

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B. 4
C. 6
D. 8
The correct answer is option [D]
121. Which of these is not a dicotyledon?
A. Mango
B. Cowpea
C. Groundnut
D. Maize
The correct answer is option [D]
Zea mays (maize) is monocotyledon.
122. Animal classification was introduced in the year
A. 1707
A. 1707 B. 1778
B. 1778
B. 1778 C. 1753
B. 1778 C. 1753 D. 1758
B. 1778 C. 1753 D. 1758
B. 1778 C. 1753 D. 1758 The correct answer is option [D]
B. 1778 C. 1753 D. 1758 The correct answer is option [D]  123. Which of these does not have a shell?
B. 1778 C. 1753 D. 1758 The correct answer is option [D]  123. Which of these does not have a shell? A. Snail
B. 1778 C. 1753 D. 1758 The correct answer is option [D]  123. Which of these does not have a shell? A. Snail B. Slug

- 124. In which of the following areas can science be applied?
- A. Medicine
- B. Construction
- C. Engineering
- D. All of the above

The correct answer is option [D]

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## **TOPIC: CONCEPT OF LIVING**

## DIRECTION: Choose the correct answer from the lettered options.

1. Which of the following is not true about living things?

A. All existing cells come from the reproduction of pre-existing cells
B. All living things are made up of cells.
C. Genetic information is passed down from offspring to parents.
D. All cells contains information for its structural and functional development in its nucleic acid.
The correct answer is option [C]
2. The following are general characteristics of living things except
A. growth
B. death
C. walking
D. adaptation
The correct answer is option [C]
3. Animals move from place to place in search of the following except
A. mates
B. water
C. air
D. shelter
The correct answer is option [C]
4. Living things include and
A. plates and knives
B. meat and knife

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C.	рl	lan	ts	an	d	an	im	ıal	ls

D. plants and crops alone

The correct Answer is option [C].

_				
h	Dlante	ctora	their food	20
J.	гины	31010	THEIL IOOU	ดง

- A. glucose
- B. glycogen
- C. starch
- D. saccharides

The correct answer is option [C]

6.		is	the	division	of	а	cell	to	form	another
----	--	----	-----	----------	----	---	------	----	------	---------

- A. Fusions
- B. Production
- C. Respiration
- D. Reproduction

The correct answer is option [D].

Look at the diagram carefully and answer the question correctly.

7. What is the name of this animal?



- A. Egg
- B. Snail
- C. Snailing
- D. Snake

The correct Answer is option [B].

8. Which one of the following is not a vertebrate?
A. Hen
B. Man
C. Fish
D. Ant
The correct answer is option [D]
9. Plants during photosynthesis give out as a by product.
A. fruits
B. food
C. carbon dioxide
D. oxygen
The correct answer is option [D]
Look at the diagram carefully and answer the question that follows.
Look at the diagram carefully and answer the question that follows.  10. What is the name of this type of fish?
10. What is the name of this type of fish?
10. What is the name of this type of fish?  A. Tilapia
10. What is the name of this type of fish?  A. Tilapia  B. Minnow
10. What is the name of this type of fish?  A. Tilapia  B. Minnow  C. Mackerel
10. What is the name of this type of fish?  A. Tilapia B. Minnow C. Mackerel D. Shark
10. What is the name of this type of fish?  A. Tilapia B. Minnow C. Mackerel D. Shark

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B. Palm oil
C. Beef
D. Pawpaw
The correct answer is option [C]
12. Substances making up living things are derived directly or indirectly from water, soil and
A. air
B. trees
C. energy
D. none of the above
The correct answer is option [A]
Look at the diagram carefully and answer the question correctly.
13. What is the name of the part labelled 1?
A. Eye
B. Nostrils
C. Gills
D. Mouth
The correct Answer is option [A].
14 The synthesis of complex molecules in living organisms from simpler molecules is known as
A. anabolism

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B. catabolism
C. anabism
D. catabism
The correct answer is option [A]
15. The following are fields in which the knowledge of biology can be applied except
A. biotechnology
B. agriculture
C. economics
D. genetics
The correct answer is option [C]
16. The structural organization in tissues or organs are never found in
A. living things
B. non-living things
C. plants
D. avers
The correct answer is option [B]
17. What is growth?
A. It is an increase in the size of all parts of an organism.
B. It is an increase in the height alone of an organism.
C. It is an increase the width of a part of an organism.
D. It is a deformity that occurs which leads to the increase in height and width of the organism.

The correct answer is option [A].

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Look at the diagram carefully and answer the question correctly.

18. What is the name of the part labelled 2?

A. Bones



A. Tailing
B. Tail or caudal fin
C. Bifins
D. Labels
The correct Answer is option [B].
19 is a waste product from plants.
A. Gum
B. Water
C. Carbon monoxide
D. None of the above
The correct answer is option [A]
20. The division of kingdoms into smaller groups is called
A. phyla
B. genus
C. class
D. species
The correct answer is option [A]
21. Which of the following is not involved in the movement of living organisms?

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- B. Follicles
- C. Cilia
- D. Muscles

The correct answer is option [B]

Examine the diagram carefully and answer the question that follows.

22. What is the name of this type of worm?



- A. Ringworm
- B. Speed worm
- C. Bagworm
- D. Earthworm

The correct Answer is option [D].

Look at the diagram carefully and answer the question correctly.

23. What is the name of this type of fish?



- A. Rayfish
- B. Catfish
- C. Money fish
- D. Sardine fish

The correct Answer is option [A]

24. V	Vhen a hypothesis has	been tested a	and found to	o be r	epeatedly	correct v	within
the I	imits of available evide	nce, it become	es a	•			

- A. theory
- B. certified hypothesis
- C. speculation
- D. doctrine

The correct answer is option [A].

- 25. Sensitivity is another word for \_\_\_\_\_.
- A. irritability
- B. withdrawal
- C. response
- D. changes

The correct answer is option [A]

Look at the picture carefully and answer the question correctly.

26. What is the name of this animal?



- A. Crocodile
- B.Newt
- C. Lizard
- D. Reptile

The correct Answer is option [B].

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27. Do wall geckos look like lizards?
A. Yes
B. No
The correct Answer is option [A].
Look at the diagram carefully and answer the question correctly.
28. The part labelled 3 in the diagram is called
A. pelvic fin
B. pectoral fin
C. fin rays
D. dorsal fin
The correct Answer is option [A].
29. The following are found in both plants and animals except
A. cytoplasm
B. vacuole
C. Golgi body
D. centrioles

The correct answer is option [D]

Look at the diagram carefully and answer the question correctly.

30. What is the name of this type of fish?



A. observation

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B. hypothesis
C. experimental procedure
D. practical
The correct answer is option [D]
34. A is a reasonable explanation for a particular observation.
A. theory
B. hypothesis
C. guess
D. observation
The correct answer is option [B].
35. Unicellular organisms are called
A. protozoans
B. metazoans
C. pongidae
D. proteus
The correct answer is option [A]
36. The newt is an animal that looks like a
A. fowl
B. bird
C. cockroach
D. lizard
The correct Answer is option [D].

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Look at the picture carefully and answer the question correctly.

37. What is the name of the animal in the picture?



- A. Lizard
- B. Lizerd
- C. Wall gecko
- D. Agama lizard

The correct Answer is option [A].

38. An order is a group of related
A. genera
B. families
C. classes

D. phyla

The correct answer is option [B]

39. \_\_\_\_\_ consists of the nucleus and cytoplasm.

- A. Protoplasm
- B. Chromosome
- C. Lysosomes
- D. Organelles

The correct answer is option [A]

40. What is metabolism?

A. It is change in a cell that leads to the increase in the height and width of the organism.

B. It is the conversion of non-living materials into cellular components.

C. It is the breakdown of food and fluid substances in the body to produce waste.

D. It is the decomposition of inorganic matter.

The correct answer is option [B].

Look at the diagram carefully and answer the question correctly.

41. What is this animal called?



A. Leech

B. Lich

C. Linc

D. Lach

The correct Answer is option [A].

42. The process where by the food you eat is made part of the body is called

A. growth

B. ingestion

C. addition

D. assimilation

The correct answer is option [D]

43. Which of the following is an organelle directly involved in cell division in animals?
A. Cytoplasm
B. Centrioles
C. Mitochondria
D. Cell wall
The correct answer is option [B].
44 is a metabolic process that breaks down organic matter.
A. catastrophe
B. catalogue
C. catabolism
D. anabolism
The correct answer is option [C]

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## **TOPIC: CONSERVATION OF NATURAL RESOURCES**

## DIRECTION: Choose the correct answer from the lettered options.

1 is the process where only mature trees are allowed to be felled for timber.
A. Indiscriminate cutting
B. Random tree cutting
C. Selective cutting
D. Tactical tree felling
The correct answer is option [C].
2. Which of the following is not a means of conserving natural resources?
A. Establishment of national parks
B. Selective logging
C. Building of dams
D. Bush burning
The correct answer is option [D]
Bush burning upsets the natural ecological systems.
<ul><li>3. In which of the following states in Nigeria is Borgu game reserve found?</li><li>A. Enugu</li></ul>
B. Anambra
C. Kano
D. Niger
The correct answer is option [D].
4. Which of the following is not a conservable natural resource?
A. Minerals

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B. Sunlight
C. Forest
D. Soil
The correct answer is option [B]
5. What does planting of trees that provide surface cover for the soil do?
A. It reduces soil nutrients.
B. It causes deficiency in plant growth.
C. It prevents rain from the soil.
D. It reduces water evaporation from the soil.
The correct answer is option [D].
6. Afforestation is best described as
A. the harvesting of natural forest resources
B. planting trees of value to man
C. fallowing forestland
D. felling trees in the forest
The correct answer is option [B
7 is the judicious use of natural resources to ensure their continuous availability and to preserve the original nature of the environment.
A. Conservation of natural resources
B. Human resource control
C. Wildlife study
D. Environmental study
The correct answer is option [A]

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8. Storage of water in tanks or wells is a method of water.
A. recycling
B. treating
C. conserving
D. reusing
The correct answer is option [C]
9. Natural resources are classified into categories.
A. 1
B. 3
C. 2
D. 4
The correct answer is option [C]
The two (2) classification of natural resources are renewable and non-renewable resources.
10 are resources which when exhausted cannot be replaced or recovered.
A. Non-renewable resources
B. Renewable
C. Conserved
D. Recycled  The correct energy is antice [A]
The correct answer is option [A]
11. Which one of the following is a set of natural resources that needs to be conserved?
A. Blood, wildlife, lime and arteries
B. Concrete, sand, skin and fingers
C. Fingers, forest, head and skin

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D. Water, wildlife, forest, and mineral resources
The correct answer is option [D]
12. Why are mineral resources non-renewable?
A. They are never exhausted.
B. They can be replaced quickly.
C. Once they are exhausted, they cannot be replaced.
D. It is very small in quantity.
The correct answer is option [C]
13. The term used in describing the effective management of natural resources by man is known as
A. conservation
B. utilization
C. economics
D. development
The correct answer is option [A]
14. The largest game reserve in Nigeria is the
A. Kanji Game Reserve in Niger State
B. Zamfara forest Reserve in Zamfara State
C. Yankari Game Reserve in Bauchi State
D. Borgu Game Reserve in Niger State
The correct answer is option [C]
15. The conservation of non-renewable resources involves the following except
A minimizing their wastage

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B. using other natural resources
C. recycling them where possible
D. finding acceptable alternatives
The correct answer is option [B].
16. Methods of soil conservation includes
A. overgrazing
B. deforestation
C. recycling of materials
D. afforestation
The correct answer is option [D].
17. Which of the following farm practices can cause loss of soil fertility?
A. Mulching
B. Compost application
C. Use of fertilizers
D. Intensive cropping
The correct answer is option [D]
18 involves the spreading of a layer of vegetable materials on cultivated farmland.
A. Planting
B. Fallowing
C. Mulching
D. Cultivation
The correct answer is option [C].

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23. Conservation of natural resources is aimed at
A. preventing the loss, waste or exploitation of natural resources through rational use
B. preventing the spread of infectious diseases within a geographical location
C. preventing the spread of diseases from domestic animals to humans
D. none of the above
The correct answer is option [A]
24. Which of the following is a way of conserving natural resources?
A. Establishing agencies for conservation and game reserves.
B. Establishing companies and educational facilities.
C. Regular renewal of used mineral resources.
D. Ensuring wildlife becomes extinct.
The correct answer is option [A]
25. The planting of new trees where there was no tree is known as
A. afforestation
B. deforestation
C. re-planting
D. plantation farming
The correct answer is option [A].
26. Through which of the following means can conservative education be effectively done?
A. Television
B. Cinemas
C. Newspapers
D. All of the above
The correct answer is option [D].

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27. Which one of the following animals should be conserved?
A. Domestic animals
B. Wild animals
C. Farm animals
D. All of the above
The correct answer is option [D].
28. The farming practice by which an exhausted farmland is left for a number of years before cultivation is known as
A. crop rotation
B. continuous cropping
C. mono cropping
D. bush fallowing
The correct answer is option [D]
29 is not one of the advantages of clearing aquatic vegetation.
A. Providing enough space for fish
B. Allowing free oxygen circulation
C. Increasing productivity
D. Introducing harmful substances
The correct answer is option [D].
30. The following agencies are responsible for conservation in Nigeria except
A. Forestry Departments
B. Nigerian Conservation Society
C. Games Reserve Authority
D. Red Cross Society
The correct answer is option [D]

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31. Prevention of erosion could best be carried out by
A. crop rotation and deforestation
B. contouring of sloping ground and afforestation
C. grazing, terracing and shifting cultivation
D. strip cropping and poaching
The correct answer is option [B]
32. Which of the following is not a method of conserving fishing grounds?
A. Use of nets with all sizes of mesh.
B. Use of nets with a particular mesh size.
C. Ban on harvesting of some species.
D. Regulating the sizes of mesh.
The correct answer is option [A]
The use of nets with all sizes of mesh would permit young fishes to be caught along with the mature fish.
33. Which one of the following is not an example of mineral resources?
A. Petroleum
B. Coal
C. Bauxite
D. Gammalin
The correct answer is option [D].
34. The felling of trees can be referred to as
A. forestry
B. afforestation
C. deforestation
D. harvesting
The correct answer is option [C].

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35. Which of the following is not a result of pollution of air and water?
A. Decrease in plant population
B. Proper animal growth
C. Death
D. Poisoning
The correct answer is option [B].
36. In checking wind erosion, can serve as wind brakes.
A. stems
B. trees
C. leaf
D. roots
The correct answer is option [B].
37 is a practice of illegally killing animals for commercial purposes.
37 is a practice of illegally killing animals for commercial purposes.  A. Hunting
A. Hunting
A. Hunting B. Poaching
A. Hunting B. Poaching C. Murder
A. Hunting B. Poaching C. Murder D. None of the above
A. Hunting B. Poaching C. Murder D. None of the above
<ul> <li>A. Hunting</li> <li>B. Poaching</li> <li>C. Murder</li> <li>D. None of the above</li> <li>The correct answer is option [B].</li> <li>38. Which of the following is not part of the objectives of natural resource</li> </ul>
A. Hunting B. Poaching C. Murder D. None of the above The correct answer is option [B].  38. Which of the following is not part of the objectives of natural resource conservation?
A. Hunting B. Poaching C. Murder D. None of the above The correct answer is option [B].  38. Which of the following is not part of the objectives of natural resource conservation? A. To eliminate all wild animals for the survival of others.
A. Hunting B. Poaching C. Murder D. None of the above The correct answer is option [B].  38. Which of the following is not part of the objectives of natural resource conservation? A. To eliminate all wild animals for the survival of others. B. To use our resources on sustained yield basis.

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39. What are the benefits of conservation?
A. It helps to maintain a healthy functioning ecosystem.
B. Natural reserves can be used to generate revenue.
C. It preserves the beauty of nature.
D. All of the above
The correct answer is option [D]
40 is defined as the repeated grazing on a piece of land by domestic animals.
A. Overstepping
B. Overfeeding
C. Overgrazing
D. All of the above
The correct answer is option [C].
41. The following are main types of tissues in higher organisms except tissues.
A. digestive
B. vascular
C. muscular
D. nervous
The correct answer is option [A]
42. In conservation of wildlife, killing of animals should
A. be allowed frequently
B. be allowed moderately
C. not be allowed
D. none of the above
The correct answer is option [C].

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43. Which of the following is a benefit of soil conservation?
A. Prevention of soil erosion
B. Prevention of over-grazing
C. Escape of nutrients
D. None of the above
The correct answer is option [A].
44. Which of the following is not a way of conserving the soil?
A. Use of cover crops
B. Bush burning
C. Mulching
D. Better farming practices
The correct answer is option [B].
45. Loam is the best type of soil for crop production because
A. it has a high percentage of clay, which prevents leaching
B. it has high humus content
C. it is porous and has good water retention capacity
D. gravels, which obstruct implements, are absent
The correct answer is option [B]
46. Which one of the options is not a characteristic of aves?
A. They are warm-blooded animals.
B. They have no outer ear.
C. They have a four chambered heart.
D. They do not have lungs.
The correct answer is option [D]

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47. Which of the following is not a non-renewable resource?
A. Food
B. Natural gas
C. Coal
D. Gasoline
The correct answer is option [A].
48. Which of the following is an importance of natural resources?
A. It provides drinking water.
B. It provides food for human consumption.
C. It generates revenue for the government.
D. All of the above.
The correct answer is option [D]
49. Oil spillage pollutes the
A. air
B. water
C. mind
D. none of the above
The correct answer is option [B]
50. Which of the following is an air pollutant?
A. Oxygen
B. Water vapour
C. Carbon monoxide
D. Nitrogen
The correct answer is option [C]

Carbon monoxide is a poisonous gas formed from incomplete combustion.

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## **TOPIC: ORGANISATION OF LIFE**

## DIRECTION: Choose the correct answer from the lettered options.

1. Which of the following methods of reproduction is common to Paramecium and

Amoeba?
A. Conjunction
B. Sexual reproduction
C. Binary fission
D. Budding
The correct answer is option [C]
In binary fission, the parent organism simply divides into two, each of which can exist by itself.
2. Lining and protection of plant surface is a function of the
A. leaf
B. tissues
C. strengthening tissues
D. epithelial tissues
The correct answer is option [D]
3. The main similarity between unicellular and multicellular organisms is that both
A. perform all life activities
B. exist as filaments
C. are plants
D. exist as colonies
The correct answer is option [A]

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4. Transportation of food and water in plants is by the
A. pacting
B. vascular bundle
C. pericycle
D. cortex
The correct answer is option [B]
5. Characteristics of aves include the following except
A. they are homoeothermic
B. their skeleton is rigid and their bones have air sacs
C. they give birth to their young ones alive
D. their head, neck and trunks are covered with feathers
The correct Answer is option [C].
6. A system is made up of different
A. tissues
B. organs
C. cells
D. none of the above
The correct answer is option [B]
7. The oesophagus and the pancreas belong to the system.
A. digestive
B. respiratory
C. reproductive
D. circulatory
The correct answer is option [A]

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8. There are levels of organization of life in organisms.
A. 3
B. 6
C. 4
D. 7
The correct Answer is option [D]. They include: Kingdom, phylum, class, order, family, genus and species (for animals)
For plants, phylum is called division.
9. What is the function of the nervous tissues?
A. Conducting impulses
B. Supporting the body
C. Forming the skin
D. Conveying food and oxygen
The correct answer is option [A]
10. Which of these does not manufacture its own food?
A. Virus
B. Spirogyra
C. Green algae
D. Euglena
The correct answer is option [A]
11. Euglena moves by
A. whipping action of its flagellum
B. beating of its cilia
C. rotating action of the microvilli
D. locating the pseudopodia and cilia simultaneously
The correct answer is option [A]

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12. Diatoms, Euglena, Spirogyra and Volvox are all examples of
A. fungi
B. algae
C. bacteria
D. Amoeba
The correct answer is option [B]
13. What is the name of the structure in the cell that controls the movement of substances in and out of the cell?
A. Cytoplasmic membrane
B. Nuclear membrane
C. Cytoplasm
D. Protoplasm
The correct answer is option [A]
14. The is the functional and structural unit of life.
A. organ
B. system
C. cell
D. tissue
The correct answer is option [C]
15. Which of the following pairs of organisms exists as colonies?
A. Obelia and Euglena
B. Pandorina and Volvox
C. Chlamydomonas and Amoeba
D. Hydra and Spirogyra
The correct answer is option [B]

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16. An example of an animal made up of tissues only is
A. Amoeba
B. Paramecium
C. Hydra
D. Euglena
The correct answer is option [C]
17. The main function of the xylem and phloem is
A. photosynthesis
B. support
C. conduction and translocation
D. reproduction and photosynthesis
The correct answer is option [C]
18. The law of thermodynamics states that energy can neither be created nor destroyed.
A. first
B. second
C. Third
D. fourth
The correct Answer is option [A].
19. Which of the following is not correct about a living cell?
A. The basic unit of a living organism is the cell.
B. All living organisms are either single or groups of cell(s).
C. All the cells in an organism are the same.
D. There is no life apart from the life in cells.

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20. The vegetative plant body of fungi is called
A. pileus
B. gill
C. stipe
D. hyphae
The correct answer is option [D]
21. The chemical formula for oxygen is
A. OX <sub>2</sub>
B. O
C. O <sub>2</sub>
D. H <sub>2</sub> O
The correct answer is option [C]
22. Movement of parts of the body is by tissues.
A. muscle
B. epithelial
C. connective
D. nerve
The correct answer is option [A]
23. The digestive system is made up of organs such as the following except
A. stomach
B. veins
C. duodenum
D. ileum
D. HOGH

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24. Euglena may be classified as a plant because it
A. has chloroplasts
B. has a gullet
C. lives in a pond
D. possesses a flagellum
The correct answer is option [A]
25. The simplest of all the levels of organization in mammals is the
A. tissue
B. organ
C. system
D. cell
The correct Answer is option [D].
26. What is energy?
A. Energy is defined as the ability to do work.
B. Energy is defined as the ability to carry effort.
C. Energy is force.
D. Energy is the speed exerted on force.
The correct Answer is option [A].
27 is a disadvantage of complexity in higher organisms.
A. High energy requirement
B. Functional efficiency
C. Low energy requirement
D. Increase in size
The correct answer is option [A]

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28. Stamen and pistil are organs in the system.	
A. root	
B. shoot	
C. transport	
D. reproductive	
The correct answer is option [D]	
29. Which of the following structures controls the activities of a living cell?	
A. Nucleus	
B. Centrosome	
C. Chloroplast	
D. Golgi body	
The correct answer is option [A]	
30. Which one of the following is the ultimate source of energy?	
A. Rain	
B. The cloud	
C. The water vapour	
D. The sun	
The correct Answer is option [D].	
31. What is a single-celled organism called?	
A. Mon cellular	
B. Unicellular	
C. Single cellular	
D. None of the above	
The correct answer is option [B]	

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32. Living things are made up of
A. blood
B. skeleton
C. cells
D. muscles
The correct answer is option [C]
33. A tissue is a collection of
A. cells
B. organs
C. systems
D. muscles
The correct answer is option [A]
34. The cilia in Paramecium are used for
A. respiration
B. locomotion
C. protection
D. producing food
The correct answer is option [B]
In Paramecium, the action of the cilia moves the whole organism.
35. Which of the following systems provides places for the attachment of muscles?
A. Nervous systems
B. Reproductive systems
C. Skeletal systems
D. Digestive systems
The correct answer is option [C]

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36. A multicellular organism has
A. Two cells
B. many cells
C. less than one cell
D. none of the above
The correct answer is option [B]
37. The following are examples of cytoplasmic structures except
A. vacuoles
B. flagella
C. cilia
D. fur
The correct answer is option [D]
38. In humans, exchange of gases take place with the help of the and
38. In humans, exchange of gases take place with the help of the and  A. nose, lungs
·
A. nose, lungs
A. nose, lungs B. skin, mouth
A. nose, lungs B. skin, mouth C. heart, lungs
A. nose, lungs B. skin, mouth C. heart, lungs D. all of the above
A. nose, lungs B. skin, mouth C. heart, lungs D. all of the above The correct answer is option [A]
A. nose, lungs B. skin, mouth C. heart, lungs D. all of the above The correct answer is option [A]  39. Amoeba moves by means of
A. nose, lungs B. skin, mouth C. heart, lungs D. all of the above The correct answer is option [A]  39. Amoeba moves by means of A. cilia
A. nose, lungs B. skin, mouth C. heart, lungs D. all of the above The correct answer is option [A]  39. Amoeba moves by means of A. cilia B. flagella
A. nose, lungs B. skin, mouth C. heart, lungs D. all of the above The correct answer is option [A]  39. Amoeba moves by means of A. cilia B. flagella C. pseudopodia

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40. The law of thermodynamics states that in any conversion of energy from one form to another, there is always a decrease in the amount of useful energy.
A. Third
B. first
C. second
D. fourth
The correct Answer is option [C].
41. The second level of organization in mammals is
A. cells
B. organs
C. tissues
D. systems
The correct Answer is option [C].
42. The scientist who discovered the honey-comb structure of the cell was
A. Robert Hooke
B. Felix Dujardin
C. Mathias Schleiden
D. Louis Pasteur
The correct answer is option [A]
43. Most of the energy in the cell is produced in the
A. mitochondrion
B. lysosome
C. plastid
D. Golgi apparatus
The correct answer is option [A]

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44. What gives support to flowering plants?
A. Stem and leaves
B. Root and root hairs
C. Xylem
D. Phloem
The correct answer is option [C]
45. The formation of fats and oils from fatty acids and glycerol is an example of process.
A. photolytic
B. anabolic
C. catabolic
D. metabolism
The correct Answer is option [B].
46. Which of the following organisms does not carry out photosynthesis?
A. Chlorella
B. Spirogyra
C. Paramecium
D. Chlamydomonas
The correct answer is option [C].
Paramecium is a genus of unicellular protozoa.
47. Which one of the following sets represents energy forms?
A. Mechanical, electrical, solar, potential
B. Steam, kinetic, mechanical, solar
C. Power, current, voltage, circuit
D. Nuclear, solar, car, machine
Di itabibai, bolai, bai, maomilib

The correct Answer is option [A].

48. The levels of organization of life in organisms are,, and
A. cells, tissues, organs, systems
B. kingdom, phylum, class, order
C. appendicular, axial, upper limbs, lower limbs
D. eye, ear, nose, tongue
The correct Answer is option [A].
49. The main organs in the female reproductive system include the following except
A. testicle
B. vagina
C. ovaries
D. uterus
The correct answer is option [A]
50. Which of the following constitutes the main internal tissues of a leaf?
A. Cuticle
B. Mesophyll
C. Vascular tissue
D. Lower epidermis
The correct answer is option [B]

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## **TOPIC: PLANT AND ANIMAL NUTRITION**

## DIRECTION: Choose the correct answer from the lettered options.

1. A person that is obese must avoid meals containing and
A. carrots and oranges
B. margarine and butter
C. groundnut and beans
D. beef and yam
The correct answer is option [D]
2. When food is oxidized, is released.
A. CO <sub>2</sub>
B. O <sub>2</sub>
C. energy
D. carbohydrate
The correct answer is option [C]
3. The first stable product of photosynthesis is
A. water
B. starch
C. carbon dioxide
D. glucose
The correct answer is option [D].
Water and carbon dioxides are by-products. Glucose on the other hand is the first stable product which will subsequently be converted to starch.
4. What are the two basic modes of nutrition in living organisms?
A. Holozoic and heterotrophic

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B. Autotrophic and holozoic
C. Holophytic and chemosynthesis
D. Holozoic and photosynthesis
The correct answer is option [B]
5. Nutrients needed by plants in tiny amounts are known as
A. macronutrients
B. essential elements
C. trace nutrients
D. all of the above
The correct answer is option [C].
6. In the classification of living organisms, nematode, Annelida and mollusca are examples of
A. genus
B. kingdom Plantae
C. kingdom Animalia
D. special
The correct answer is option [C]
7. To retain the desirable trait of large body size in a herd observed by the farmer, he needs to
A. feed the animals in the herd with more food
B. cross-breed the animals with a different herd
C. inbreed the animals within the herd
D. prevent diseases in his herd
The correct answer is option [C]

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8. The role of adenosine triphosphate (ATP) include all except
A. chemical energy production
B. transmission of nerve impulses
C. alcohol production in aerobic respiration
D. water production in aerobic respiration
The correct answer is option [C]
9. Vitamin E is concerned with
A. bone formation
B. reproduction
C. vision
D. formation of red blood cell
The correct answer is option [B]
Vitamin E plays an important role in male and female reproductive health.
10. What is the function of bacteria in the large intestine of man?
A. To synthesize vitamin K and B2
B. To digest vegetables
C. To synthesize vitamins A and D
D. To absorb water
The correct answer is option [B]
11. Heterotrophic nutrition can be defined as
A. feeding by depending on one's own manufactured food
B. direct or indirect nutrition from plants
C. feeding of child by parent
D. nutrition of plants through photosynthesis
The correct answer is option [B]

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12. Which of the following is a symbol for representing manganese?
A. Mn
B. Mg
C. Ma
D. Ms
The correct answer is option [A].
13. What mode of nutrition is exhibited by autotrophs?
A. Holophytic
B. Heterophic
C. Chemotrophic
D. Holozoic
The correct answer is option [A]
14. Which of the following organs are directly involved in nutrition?
,
A. Oesophagus, bronchus, stomach, pancreas and anus
,
A. Oesophagus, bronchus, stomach, pancreas and anus
A. Oesophagus, bronchus, stomach, pancreas and anus B. Spleen, pharynx, duodenum, jejunum and rectum
A. Oesophagus, bronchus, stomach, pancreas and anus B. Spleen, pharynx, duodenum, jejunum and rectum C. Teeth, oesophagus, ileum wings and large intestine
A. Oesophagus, bronchus, stomach, pancreas and anus B. Spleen, pharynx, duodenum, jejunum and rectum C. Teeth, oesophagus, ileum wings and large intestine D. Salivary gland, liver
A. Oesophagus, bronchus, stomach, pancreas and anus B. Spleen, pharynx, duodenum, jejunum and rectum C. Teeth, oesophagus, ileum wings and large intestine D. Salivary gland, liver
A. Oesophagus, bronchus, stomach, pancreas and anus B. Spleen, pharynx, duodenum, jejunum and rectum C. Teeth, oesophagus, ileum wings and large intestine D. Salivary gland, liver The correct answer is option [D]
A. Oesophagus, bronchus, stomach, pancreas and anus B. Spleen, pharynx, duodenum, jejunum and rectum C. Teeth, oesophagus, ileum wings and large intestine D. Salivary gland, liver The correct answer is option [D]  15. Which of the following groups consists of heterotrophs?
A. Oesophagus, bronchus, stomach, pancreas and anus B. Spleen, pharynx, duodenum, jejunum and rectum C. Teeth, oesophagus, ileum wings and large intestine D. Salivary gland, liver The correct answer is option [D]  15. Which of the following groups consists of heterotrophs? A. Mucor, Chlamydomonas and Euglena
A. Oesophagus, bronchus, stomach, pancreas and anus B. Spleen, pharynx, duodenum, jejunum and rectum C. Teeth, oesophagus, ileum wings and large intestine D. Salivary gland, liver The correct answer is option [D]  15. Which of the following groups consists of heterotrophs? A. Mucor, Chlamydomonas and Euglena B. Spirogyra, mucor and mushroom

16. Which of the following is an autotrophic mode of nutrition?
A. Chemosynthesis
B. Saprophytism
C. Parasitism
D. Symbiosis
The correct answer is option [A]
In chemosynthesis, carbohydrates are manufactured from carbon dioxide and water using chemical nutrients as the energy source, rather than the sunlight used in photosynthesis.
17. Which one of the following is not a storage organ in plants?
A. Underground stems
B. Root tubers
C. Seeds
D. Buds
The correct answer is option [D].
18 The following are factors that affect photosynthesis except
A. chlorophyll concentration
B. water logged soil
C. optimum temperature
D. light intensity
The correct answer is option [B].
19. All organs of plants with chlorophylls are in colour.
A. green
B. yellow
C. brown

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D. white
The correct answer is option [A].
20. Which of the following structural features makes Drosera (sundew) adapt to its carnivorous mode of nutrition?
A. Long root with glandular hairs
B. Club-shaped glandular hairs on leaves
C. Prominent lenticel on the stem
D. Broad leaves with long spines
The correct answer is option [B]
21. In the marine food web, the source of energy to the producer comes from the
A. sea waves
B. sea water
C. sun
D. air
The correct answer is option [C]
22 are fungi or bacteria that feed on dead organic matter.
A. Endo parasites
B. Saprophytes
C. Commensals
D. Symbionts
The correct answer is option [B]
23. In humans, water can be excreted through
A. the skin

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B. the digestive tract
C. the cytoplasm of worn-out cells
D. the cellular respiration
The correct answer is option [A]
24. Thunderstorm can be beneficial to plants because it
A. kills the pests that attack the crops
B. destroys some of the major crops
C. adds nitrates to the soil
D. adds lime to the soil
The correct answer is option [C]
25. Which of the following is used to test for protein?
A. Million's reagent
B. Fehling's solution
C. Sudan III
D. lodine solution
The correct answer is option [A]
A solution of mercuric nitrate and nitrous acid used to test for proteins.
26. During which of the following processes is food for animals produced?
A. Photosynthesis
B. Respiration
C. Nutrition
D. Digestion
The correct answer is option [A]

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27. Which of the following is not one of the processes involved in trifurcation?
A. Conversion of ammonia into nitrites
B. Conversion of nitrites into nitrates
C. Conversion of nitrates into nitrogen gas
D. None of the above
The correct answer is option [C]
28. Which of the following is the best proof of photosynthesis by a plant?
A. Absorption of light
B. Formation of starch
C. Availability of carbon dioxide
D. Splitting of water molecules
The correct answer is option [A]
29. Which of the following is not a micronutrient?
A. Molybdenum
B. Phosphorus
C. Iron
D. Manganese
The correct answer is option [B].
30. The is vestigial in humans but functional in other mammals.
A. liver
B. appendix
C. rectum
D. stomach

The correct answer is option [B]

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31. The mode of nutrition exhibited by a tapeworm is
A. symbiotic
B. saprophytic
C. parasitic
D. holozoic
The correct answer is option [C]
32. Chlorophyll and protein formation is a function of
A. iron
B. sulphur
C. potassium
D. calcium
The correct answer is option [A].
33. Which of the following essential substances is contained in vegetables?
A. Chlorophyll
B. Glucose
C. Mineral salts
D. Carbon dioxide
The correct answer is option [C].
34. Which of the following juices contains the enzyme ptyalin?
A. Gastric juice
B. Pancreatic juice
C. Succus
D. Saliva

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35. Which one of the following does not reduce chlorophyll concentration?
A. High light intensity
B. Mineral deficiency diseases
C. Ageing process
D. Optimum light intensity
The correct answer is option [D].
36. An experiment designed to eliminate all bias when carrying out an experiment is known as the?
A. observation
B. inference for the experiment
C. established hypothesis
D. controlled experiment
The correct answer is option [D]
37. Which of the following pairs of organisms are photosynthetic?
A. Amoeba and Paramecium
B. Volvox and Rhizopus
C. Chlamydomonas and Euglena
D. Nostoc and Plasmodium
The correct answer is option [C]
38. Green plants manufacture their food in the presence of sunlight through the process of
A. photosynthesis
B. chemosynthesis
C. nutrition
D. saprophytism
The correct answer is option [A]

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39 is not a mineral salt required for the synthesis of proteins, fats and oils in plants.
A. Phosphates
B. Nitrates
C. Carbon
D. Sulphates
The correct answer is option [C].
40. When reporting a scientific investigation, which of the following option is correct?
A. Observation> Control> Theory> Inference> Data
B. Observation> Inference> Measurement> Identification> Hypothesis> Experiment> theory
C. Collection> Aim> Objective> Method> Experiment> Conclusion
D. Observation> Hypothesis> Experiment> Result> Analysis> Conclusion
The correct answer is option [D]
41. In the biuret's test, some protein was mixed with sodium hydroxide solution. Which of the following chemicals should be added to the mixture for positive results?
A. Mercurous nitrate
B. Copper sulphate
C. Mercuric nitrate
D. Sodium carbonate
The correct answer is option [B]
42. Autotrophic nutrition may be described as food obtained
A. from other organisms in exchange for some products
B. by the breakdown of complex substances to simple digestable substances
C. by an organism utilizing its own store of energy

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D. by synthesizing simple substances using energy from an external source
The correct answer is option [D]
43. Green plants require to manufacture their food.
A. fluids
B. inorganic substances
C. living materials
D. gases only
The correct answer is option [B]
44. In which of the following forms can carbohydrate be stored in yam?
A. Glucose
B. Maltose
C. Starch
D. Glycogen
The correct answer is option [C]
45. Which of the following mineral salts is a trace element?
A. Zinc
B. Carbon
C. Hydrogen
D. Potassium
The correct answer is option [A]
46. Which of the following is used to test for starch?
A. Million's reagent
B. Fehling's solution

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C. Sudan III solution

The correct answer is option	on [D]
lodine solution gives a blue the formation of a starch-io	e-black colouraton in the presence of starch. This is due to odine complex.
47. The of a pla	ant is the only structure capable of trapping sunlight
A. guard cell	
B. chlorophyll	
C. cuticle	
D. vascular bundle	
The correct answer is option	on [B].
48. The dentition of an her	bivore is distinct from that of other animals due to the
A. diastema	
B. cusps on molar teeth	
C. canines	
D. ridges on molar teeth	
The correct answer is option	on [A]
The diastema is the gap be	etween the incisors and the premolars.
49. Carbon (iv) oxide diffus layer.	ses into the leaves through the to the mesophyll
A. stomata	
B. guard cells	
C. air space	
D. epidermis	
The correct answer is optic	on [A].

D. lodine solution

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50. A	_ colour confirms the presence of starch in a leaf.
A. blue-green	
B. blue-grey	
C. blue-black	
D. blue	
The correct ans	ewer is option [C].
51. The importar	nce of a balanced diet is to
A. maintain con	stant size of an animal
B. provide good	I taste in the food
C. increase the	effectiveness of digestion
D. provide good	health for an individual
The correct ans	wer is option [D]
	contains all six classes of food in the right amounts to suit a person's y, weight and the climate.
52. In the body,	dietary vitamins plays the role of
A. supplying car	bohydrates and fats
B. influencing co	ertain chemical processes
C. stimulating th	ne muscles of the alimentary canal
D. digesting pro	pteins
The correct ans	ewer is option [B]
53. In the test fo	or starch, the leaf is first placed in boiling water in order to
A. remove the c	hlorophyll
B. dissolve the v	waxy cuticle
C kill and make	the leaf normeable

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D. turn it blue-black
The correct answer is option [C]
54. The nutrient necessary for nitogen fixation is
A. zinc
B. chlorine
C. molybdenum
D. copper
The correct answer is option [C].
55. Only green plants can carry out autotrophic nutrition.
A. True
B. False
The correct answer is option [A]
56. The teeth used for tearing and cutting are and
A. canine and molars
B. premolars and incisors
C. molars and incisors
D. canine and incisors
The correct answer is option [D]
57. Stunted growth and chlorosis are deficiencies in plants that lack the following except
A. nitrogen
B. magnesium
C. manganese
D. iron
The correct answer is option [C].

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58. Which of the following organisms exhibits extracellular digestion?
A. Moulds
B. Green plants
C. Algae
D. Bryophytes
The correct answer is option [A]
59. An example of a macronutrient is
A. zinc
B. copper
C. boron
D. sulphur
The correct answer is option [D].
60. Nitrogen-fixing microorganisms in leguminous plants live symbiotically in the
·
A. root nodules
B. taproots
C. branch roots
D. root hairs
The correct answer is option [A]
61. Which of the following statements is not true of the light stage of photosynthesis?
A. Chlorophyll is energized by sunlight.
B. Water molecules split into hydrogen and hydroxyl ions.
C. Carbon (IV) oxide is reduced by hydrogen atoms in NADPH2.
D. Water is formed.
The correct answer is option [D]

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62. For heterotrophic organisms, competition is least caused by the inadequacy of
A. mates
B. space
C. light
D. nutrients
The correct answer is option [C]
63. Which of the following does not represent a heterotrophic mode of nutrition?
A. Symbiosis
B. Parasitism
C. Commensalism
D. Holophytism
The correct answer is option [D]
Holophytism relies on photosynthesis to obtain nutrients; thus it is not a heterotrophic mode of nutrition.
64. When proteins are broken down, they provide the body with
A. glycerol
B. monosaccharaides
C. energy
D. amino acids
The correct answer is option [D]
65. Which of the following is considered the first product of photosynthesis?
A. Protein
B. Energized chlorophyll
C. Hydroxyl ions

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D. Starch
The correct answer is option [D].
66. Good quality food will perform the following functions in humans except
A. supply energy for the body
B. provide resistance against natural disasters
C. sustain growth
D. maintain health
The correct answer is option [B]
67. Which of the following is not an importance of calcium?
A. It is involved in cell wall formation.
B. It is necessary for protein formation.
C. It is vital for enzyme activation.
D. It helps give rigidity to plants.
The correct answer is option [B].
68. Legumes incorporate nitrogen gas into their proteins because
A. of the presence of azotobacter in their roots
B. they possess root nodules containing Rhizobium
C. they have a well-developed root system
D. they are autotrophic
The correct answer is option [B]
69. Which of the following is not true of photosynthesis?
A. Energy from sunlight is absorbed.
B. Carbon dioxide is evolved.

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C. Glucose is synthesized.
D. Oxygen is given off.
The correct answer is option [B]
Photosynthesis uses sunlight, inorganic compounds, carbon dioxide and water to produce sugars; while oxygen is given off as a waste product.
70. A thunderstorm can be beneficial to plants because it
A. kills the pest that attacks crops
B. destroys some of the major crops
C. adds nitrates to the soil
D. adds lime to the soil
The correct answer is option [C]
71. The type of nutrition shown by Spirogyra is
A. symbiosis
B. holophytic
C. holozoic
D. chemosynthetic
The correct answer is option [B]
72. The severe deficiency of vitamin C leads to
A. Kwashiorkor
B. Beriberi
C. Pellagra
D. Scurvy
The correct answer is option [D]

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73. Which of the following statements about water in humans is not correct?
A. It plays an important role in temperature regulation.
B. It acts as solvent for substances conveyed around the body.
C. It plays a role in the formation of vitamin D.
D. It is needed for many life processes.
The correct answer is option [C]
74. Which of the following groups consists of only micronutrients?
A. Molybdenum, sulphur and copper
B. Boron, zinc and calcium
C. Manganese, molybdenum and zinc
D. Magnesium, phosphorus and manganese
The correct answer is option [C]
75. Overcrowding in seedlings of different species is less serious than overcrowding involving one specie because different species may
involving one specie because amerent species may
A. have different nutritional needs
A. have different nutritional needs
A. have different nutritional needs  B. lack the same nutrient
A. have different nutritional needs  B. lack the same nutrient  C. be active at the same time
A. have different nutritional needs B. lack the same nutrient C. be active at the same time D. have similar tolerance
A. have different nutritional needs B. lack the same nutrient C. be active at the same time D. have similar tolerance
A. have different nutritional needs B. lack the same nutrient C. be active at the same time D. have similar tolerance The correct answer is option [A]
A. have different nutritional needs  B. lack the same nutrient  C. be active at the same time  D. have similar tolerance  The correct answer is option [A]  76. The pancreatic duct opens into the
A. have different nutritional needs  B. lack the same nutrient  C. be active at the same time  D. have similar tolerance  The correct answer is option [A]  76. The pancreatic duct opens into the  A. caecum
A. have different nutritional needs B. lack the same nutrient C. be active at the same time D. have similar tolerance The correct answer is option [A]  76. The pancreatic duct opens into the A. caecum B. colon
A. have different nutritional needs B. lack the same nutrient C. be active at the same time D. have similar tolerance The correct answer is option [A]  76. The pancreatic duct opens into the A. caecum B. colon C. ileum

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77. Aquatic green plants obtain carbon (iv) oxide from dissolved in water.
A. air
B. chemicals
C. solids
D. none of the above
The correct answer is option [A].
78. In a yam plant, where is the food stored?
A. Stem
B. Bud
C. Adventitious roots
D. Leaves
The correct answer is option [A]
79. Which of the following is not a step involved in light reaction of photosynthesis?
A. Photolysis of water
B. Transfer of hydrogen by NADP
C. ATP formation
D. ADP formation
The correct answer is option [D].
80. Which of the following organisms is a chemoautotroph?
A. Virus
B. Bacteria
C. Paramecium
D. Euglena
The correct answer is option [B]

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of which of the following elements is required in large amounts by plants?
A. Molybdenum
B. Boron
C. Copper
D. Phosphorus
The correct answer is option [D]
82. Which of the following substances has the highest amount of energy in joules peunit weight?
A. Carbohydrates
B. Proteins
C. Fats
D. Vitamins
The correct answer is option [C]
83. Cretinism is caused by the deficiency of
A. adrenaline
B. vitamin A
C. insulin
D. thyroxine
The correct answer is option [D]
Cretinism is a congenital condition due to thyroid hormone deficiency during fetal development and marked in childhood by dwarfed stature, mental retardation, dystrophy of the bones and a low basal metabolism.
84. The chloroplast in Spirogyra is spiral in shape while in Zygnema, it isshaped.
A. square
B. disc

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C. star
D. round
The correct answer is option [C].
85. Which of these is the terminal portion of the alimentary canal of a mammal?
A. Oesophagus
B. Stomach
C. Rectum
D. Colon
The correct answer is option [C]
86. The part of the digestive system of a bird where grinding of maize occurs is the
A. crop
B. stomach
C. gizzard
D. cloacae
The correct answer is option [C]
The gizzard is a strong muscular bag with small stones in it that help to grind food.
87. In an experiment to test for photosynthesis, why is the green leaf tested for starch and not glucose?
A. The glucose is used up immediately to provide energy for the needs of the leaf.
B. The glucose formed is converted to starch.
C. Starch is stored only in leaves.
D. There are no chemicals for glucose test for leaves.
The correct answer is option [B]
By storing glucose as starch, the plant does not upset the osmotic balance of its cells. Starch is broken down into glucose when needed by the organism or its embryo.

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