03026 /2&1

FEBRUARY MOCK 2026

SCIENCE 2 & 1

Essay & Objective

2 &1

Name……...……...……..…

Index Number….……

FINAL PREP
EXAMINATIONS CONSORTIUM

GHANA

Special Private Mock Examinations for BECE Candidates

FEB.2026 **SCIENCE 2 & 1** **2 hours : 25 mins**

Do* not *open this booklet until you are told to do so. While you are waiting, read and observe the Following instructions. Write your* name *and* index number *in* ink *in the spaces provided above.

This booklet consists of two papers. Answer Paper* 2 *which comes first, in your answer booklet and Paper* 1 *on your Objective Test answer sheet. Paper* 2 *will last* 1 *hour* 15 minutes *after which the answer booklet will be collected. Do* not *start Paper* 1 *until you are told to do so. Paper* 1 *will last* 45 *minutes

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PAPER 2 **1hour: 25 minutes**

[100 marks]

This paper is in two *parts:* I and II. *Answer Question* 1 *in* ***Part* I** *and any other* ***three*** *questions in* ***Part* II**. *Answer* all *the questions in your answer booklet.*

Credit *will be given for* ***clarity*** *of* ***expression*** *and* ***orderly*** *presentation of* ***materials***

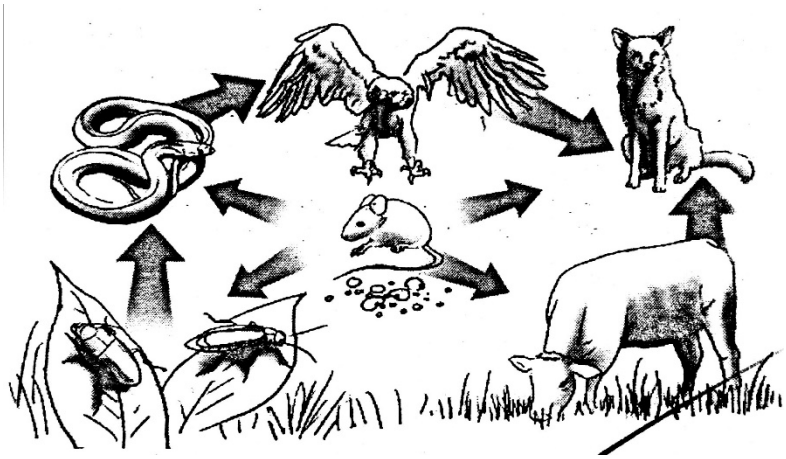
PART I

TEST OF PRACTICAL WORK

[40 marks]

Answer* all *Questions from this part.

1. (a) The diagram below represents the feeding relationship between organisms in an ecosystem. Study it carefully and use it to answer the questions that follows.



(i) What kind of feeding relationship is represented by the diagram? [2 marks]

(ii) Identify any four (2) food chains within the feeding relationship above. [2 marks]

(iii) Which of the organisms is at the apex trophic level? [1 mark]

(iv) Give any two (2) prey organisms within the feeding organisms [2 marks]

(v) Name the source of energy for all the organisms in the feeding relationship above

[3 marks]

[10 marks]

(b) The diagrams below represent images of some locally based industries. Carefully study both diagrams in Figure A and B and use them to answer the questions that follows.



Figure A

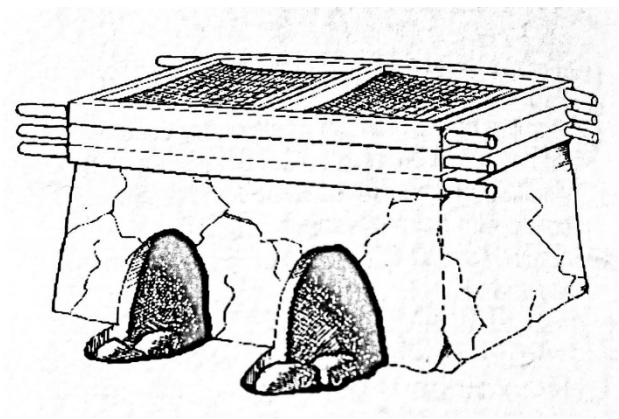


Figure B

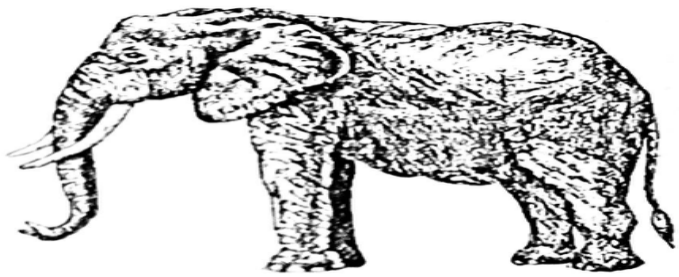
i. From the images in Figure A and B, identify the associated local based industries that operates using the artifacts above [2 marks]

ii. Precisely state the scientific principle(s) used in the production of good(s) in
   α. Figure A [2 marks]
   β. Figure B [2 marks]

iii. Outline two (2) main steps associated in
   α. Figure A [2 marks]
   β. Figure B [2 marks]

[10 Marks]

(c) The illustration shows a giant African elephant. Using your knowledge learnt in class on the concept of pressure. Answer the following questions.



Area of four feet in contact with the ground = $0.4m^2$

i. If the elephant's mass is 4800kg and the area in contact with the ground when standing on four feet is $0.4m^2$, calculate the pressure exerted on the ground.

[5**marks]**

ii. If the weight exerting a force of 800N is supported on a base area of $0.2m^{+++++++2}$,

What is the corresponding pressure exerted on the ground **[3 marks]**

iii. From your results in (ii), state the relationship between force, pressure and area as quantities depicted from your calculations above . [**2marks]**

[10 marks]

(d) There are two main different types of specialized plants in our communities. The Images below shows some typical examples of these. Look at them carefully and use them to answer the questions that follows.



Fig. A



Fig. B

(i) Identify the names of the crop plants in Fig. A and B respectively [2 marks]
(ii) Name any three (3) structural differences between A and B [3 marks]
(iii) Outline any three (3) parts of the Fig. B [3 marks]
(iv) How best can you describe;
α. Fig A as herbaceous?
β. Fig B as monoecious? =-oi[2 marks]

[10 marks]

PART II

EASSY

[60 MARKS]

Answer ***three*** questions only from this part.

2. (a) (i) What is meant by the term "feed formulation"? [2marks]

(ii) Briefly describe how you would formulate and prepare feed for a rabbit [2marks]

One of the essential ingredients needed by every farmer for sustainable plant growth is manure. Use the statement above to answer the question (iii)

(iii) What is manure to a plant? [3marks]

(iv) Copy and complete the table below. [3marks]

Types of Plant manure	One source of plant manure
Green manure	
Farmyard manure	
Compost manure	

(b) Identifying varied products of industries within and outside our communities all depends on the process of production. Most of these industries operates using scientific principles and concepts;

(i) How best do you understand when an industry is termed as "science – related"? [2marks]

(ii) Write any three (3) examples of locally -based industry that is science – related [3 marks]

(iii) List the products from the local industries below;

α. Fish smoking β. Soap making γ. Salt making [3 marks]

3. a. In recent times, there has been variations in the atmospheric conditions globally as a result of the earth's natural causes and induced human factors:

(i) What is the brief preamble above signifying? [1 mark]

(ii) Account for four (4) natural factors that causes your answer in (i) above [4 marks]

(iii) In what two (2) ways can human population minimize the recent variations in the atmospheric conditions globally [2 marks]

b. (i). How does modern technology differ from indigenous technology? [3marks]

(ii) Discuss three (3) indigenous technologies that exist in Ghana [2 marks]

c. Kwame's father is a crop farmer and an animal farmer. He has a lot of farm animals such as livestock (cattle, goats and sheep) and poultry birds. Use the statement to answer the questions that follows.

(i) What type of farming system is Kwame's father practicing?
(ii) Name the type of fertilizer would you suggest from your agricultural knowledge that he uses on his crop farms?
(iii) Explain the type of fertilizer you mentioned in (ciii) above [6 marks]

d. Predict and justify how interference such as flooding, earthquake, hunting and mining would affect the balance in an ecosystem [5 marks]

4. (a). A hammer was used to drive a nail unto the wood as seen in the diagram.



(i) How is the hammer and the nail related in term of pressure, area, and force from the diagram?

[2marks]

(ii) If the surface area of the nail is $2m^2$ and force exerted by the hammer is 10N, Determine the value of the pressure produced **[3 marks]**

(b). What are the implications of rising atmospheric carbon dioxide on climate change? .

[4 marks

(c) (i) Outline two (2) major steps involved in the making of simple farm tools

(ii) What three (3) safety precautions are you likely to observed when making farm tools?

(iii) Sketch an innovative picker for mango fruits. **[7 marks]**

(d). (i)Define speed and explain what is meant by average speed.

(ii) A motorist travels from town X and town Y, a 145km distant in 3 hours 45 minutes. Find the average speed in km/h **[4 marks]**

5. (a) (i) How do organisms get food in an ecosystem?

(ii) Use these organisms to construct two (2) different food chains: cassava, rabbit, caterpillar, sparrow and snake **[5 marks]**

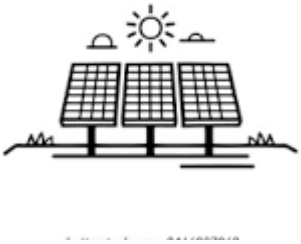
(b). (i) State the feature that is common to all your food chains constructed in (ii) above **[2 marks]**

(ii) Why are human excreta considered as manure? **[2 marks]**

(c). Figure A, B and C shows green economy actions and likely non- green economy actions



A



B



C

(i) Identify A, B and C

(ii) How does B contribute to green economy?

d. Which of these devices are;

(i) Climate- change adaptive actions?

(ii) Are operated using conventional human power? **[4 marks]**

END OF ESSAY TEST

PASS YOUR EXAMS WITH EASE 2&1

FINAL-PREPS….

DO NOT TURN THIS PAGE

UNTIL YOU ARE TOLD TO DO SO

YOU WILL BE PENALIZED SEVERELY IF YOU ARE

FOUND LOOKING AT THE NEXT PAGE BEFORE

YOU ARE TOLD TO DO SO

SECTION A

Answer all the following questions.
Each question is followed by four *options lettered* A *to* D. *Find out the correct option for each question and shade* in pencil *on your answer sheet the space which bears the same letter as the option you have chosen. Give only* one *answer to each question. An example is given below.*

The element with the chemical symbol Si is

A. Silver
B. Silicon
C. Selenium
D. Sodium

The correct answer is Silicon*, which is lettered* B *and therefore answer space* B *would be shaded*

A	B	C	D

Think carefully before you shade the answer space. Erase completely any answer you wish to change. Do all rough work on this paper. Now answer the following questions.

1. The following are examples of technological advances in Ghana except…….
A. modern smartphones
B. GPS navigation
C. Web browsers
D. mathematical sets

2. The following are impacts of technological advancements on the Ghanaian environment except……
A. hunting for animals
B. improved healthcare systems
C. improved sanitation
D. food security

3.Which of the following types of soils has poor water – holding capacity?

A. Sandy soil
B. Clayey soil
C. Silty soil
D. Loamy soil

4. Deeper soil forms at the bottom of a hill because……

A. Gravity and water move soil particles across the shape
B. Gravity and water move soil particles down the shape

C. Gravity and water move soil particles in between the shape
D. Gravity and water move soil particles above the shape.

5. The following are feedstuffs that can be found in roughages except…….

A. Bone meal
B. Cereals
C. Grains
D. Pasture

6. Which of the following is the order of the four stages of growth?

A. Birth →growth →reproduction→ death
B. Reproduction → birth → growth → death
C. Growth → reproduction → death → birth
D. Death → reproduction → growth → birth

7. A growing chicken is referred to as…...

A. chick
B. pullet
C. hen
D. cock

8. The following are examples of organic manure except …….

A. compost manure
B. farmyard manure
C. green manure
D. brown manure

9. Manure improves soil fertility by adding nutrients such as ……..
A. silver
B. copper
C. nitrogen
D. oxygen

10. Preparation of compost manure undergoes which form of composition?
A. Endophilic
B. Exophilic
C. Thermophilic
D. Texophilic

11. The pressure exerted by man on earth is minimum when he……

A. stands on his feet
B. sleeps on the ground
C. stands on one foot
D. sits with folded legs.

12. The change in direction or position of a system is known as …….
A. Force
B. Motion
C. Pressure
D. Power

13. A baseball is thrown at $150m/s^2$ and it mass is 0.5kg. What is the force acting on the baseball?
A. 65N
B. 75N
C. 85N
D. 25N

14. The following are science – related industries in the community except…….
A. robot – making
B. blacksmithing
C. soap making
D. gari processing

15. The following are steps included in gari processing except……..
A. gating
B. sieving
C. eating
D. pressing

16. What is the scientific concept and principles underlying the traditional soap making?
A. reaction between acid and base in the presence of heat.
B. reaction between potassium hydroxide and fats and oils in the presence of heat
C. recrystallization and condensation
D. importation and solidification

17. An economy that aims at reducing environmental risks and degradations is known as ……
A. white economy
B. booming economy
C. green economy
D. climate economy

18. Which of the following activities minimize the influence of climate change?
A. ocean currents
B. mining
C. use of renewable energy
D. deforestation

19. Kojo lives at a place that is 7500m above sea level. What is the most likely temperature at which pure water will boil at Kojo's house?
A. 75℃
B. 100 ℃
C. 110℃
D. 200℃

20. A tool that is usually from the same material is
A. Watering can
B. Hand trowel
C. Pickaxe
D. Knapsack sprayer

21. Freshwater is obtained from seawater by
A. evaporation
B. crystallization
C. distillation
D. sublimation

22. An industrial product that is obtained from biodigestion is …….
A. Compost
B. sucrose
C. yoghurt
D. glucose

23. A contractor is resurfacing a street that passes through a town. Each day, the contractor wets the road with water in the morning and in the afternoon. This action is best described as …….
A. climate – change adaptive action
B. climate – change mitigative action
C. green economy action
D. road surfacing action

24. Which of these industries will boom as climate change and green economy actions continue to drive our lives?
A. fossil fuel industry
B. automobile industry
C. renewable industry
D. livestock industry

25. The following are non – agricultural materials except……
A. resin
B. sawdust
C. wood
D. roots

26. A farmer says that the soil in his farm is loose. Which property of the soil is the farmer describing?
A. soil texture
B. soil structure
C. soil drainage
D. soil aeration

27. A farmer says that the soil on his farm is loose. Which of the following characteristics has the soil?

I. Good drainage
II. Good water retention
III. High capillarity
IV. Good aeration

A. I and II only
B. III and IV only
C. I and IV only
D. II and III only

28. An example of woody plants with hard stems includes all the following except
A. flamboyant
B. pride of Barbados
C. araucaria
D. maize

29. The method used to recover solid alkali from ashes of cocoa pods is …….
A. Evaporation
B. Crystallizations
C. Leaching
D. Filtration

30. The preparation of animal feed depends on the animal's ……
A. reproductive system
B. respiratory system
C. excretory system
D. digestive system

31. The following basic factors must be considered when preparing feed for domestic animals except the …….
A. type of animal
B. products of the animal
C. cost of the animal
D. stage of growth

32. A particular place within an environment where an organism lives naturally and successfully is known as …….
A. ecosystem
B. community
C. biosphere
D. biome

33. In which of the following habitats are you likely to find an antelope?
A. Freshwater
B. Trees
C. Marine
D. Forest

34. Which of the following organisms can best fit into the food chain below?

Grass → grasshopper →?
A. Lion
B. Hawk
C. Mosquito
D. Lizard

35. Which organism interacts with green manure to retain atmospheric nitrogen in the soil?
A. Lizard
B. Earthworm
C. Termites
D. Rhizobium

36. According to Newton's third law of motion, a ball thrown against a wall……
A. sticks to the wall
B. returns in the same direction
C. returns in opposite direction
D. penetrates through the wall

37. A likely tool that may be found in Mr. Mensah's shop, a blacksmith is …….
A. chisel
B. hammer
C. clinical thermometer
D. Anvil

38. The beaten of metals into sheets of different shapes makes the metals …….
A. good conductors
B. malleable
C. ductile
D. durable

39. A natural factor that doesn't affect the or influence the climate is …….
A. Deforestation
B. Volcanic eruption
C. Ocean current
D. Solar variations

40. Potassium can be obtained from which of the following raw materials?
A. Cocoa pods
B. Oil palms

C. Palm kernel | D. Acid

END OF PAPER

PASS YOUR EXAMS WITH EASE 2&1

FINAL-PREPS….