Readvanta

JNVST • Class 6
Entrance Exam • 2026–27

# Jawahar Navodaya Vidyalaya

## Selection Test Practice Series

**01** Sample Practice Paper



80 Questions • figures, graphs & passages
Exam-style OMR answer sheet
Answer key & explanations

| | | |
|---|---|---|
| Section 1 (A) | Mental Ability Test | Q. 1 – 20 |
| Section 1 (B) | Environmental Studies (EVS) | Q. 21 – 40 |
| Section 2 | Arithmetic Test | Q. 41 – 60 |
| Section 3 | Language Test (English) | Q. 61 – 80 |

**In the full e-book**

- 10 Practice Papers
- 800 questions in all
- OMR after every paper
- Answer keys & explanations

| 3 | 80 | 100 | 120 |
|---|---|---|---|
| Sections (4 subjects) | Questions | Marks | Minutes |

**English Medium**


An independent Readvanta practice series • Not an official publication of Navodaya Vidyalaya Samiti

JNVST Class 6 Entrance Exam • English Medium

# Sample Practice Paper – 01

Jawahar Navodaya Vidyalaya Selection Test • Based on the 2026-27 exam pattern

Name of the student _____

Roll number | | | | | | | | | Date _____

School / Centre _____

| 80 | 100 | 120 | A–D |
|---|---|---|---|
| Questions | Marks | Minutes (2 hours) | Four options |

| Section | Subject | Question nos. | Questions | Marks | Time |
|---|---|---|---|---|---|
| Section 1 (A) | Mental Ability Test | 1 – 20 | 20 | 25 | 60 minutes |
| Section 1 (B) | Environmental Studies (EVS) | 21 – 40 | 20 | 25 | |
| Section 2 | Arithmetic Test | 41 – 60 | 20 | 25 | 30 minutes |
| Section 3 | Language Test (English) | 61 – 80 | 20 | 25 | 30 minutes |
| | **Total** | **1 – 80** | **80** | **100** | **120 minutes** |

## Instructions for candidates

1. This paper has 80 questions. Each correct answer carries 1.25 marks. There is no negative marking.
2. All questions are to be attempted. Each question has four options (A), (B), (C) and (D); only one of them is correct.
3. Print the OMR Answer Sheet given after this paper and mark all your answers only on it.
4. Darken the circle of the correct option completely with a blue or black ballpoint pen. Use of pencil is not allowed. An answer once marked cannot be changed; do not overwrite or use whitener.
5. You must attempt questions of each section, because you have to qualify in each section separately.
6. Read the directions of each section carefully. Do rough work on a separate sheet, not on the OMR Answer Sheet.
7. If a question seems difficult, move on and come back to it later. Reserve the final 5 minutes of the 120-minute test to review your answers.
8. This is a Readvanta practice paper. It is not an official question paper of Navodaya Vidyalaya Samiti.

Section 1 (A) • Questions 1 to 20

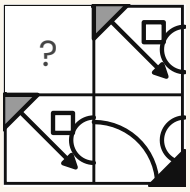
# Mental Ability Test

This section has 5 parts with 4 questions each. Separate directions are given for each part. Read them carefully before answering.

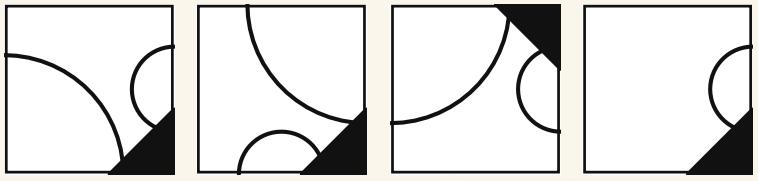
**Part 1 : Figure Completion** (Questions 1 to 4)

Directions : In Question Nos. 1 to 4, a square question figure is given on the left side. It is divided into four equal parts, one of which (?) is missing. Observe the answer figures (A), (B), (C) and (D) on the right side and find the answer figure which, without changing its direction, fits in the missing part and completes the question figure. Darken the circle in the OMR Answer Sheet against the number corresponding to the question.

**1.** Question Figure

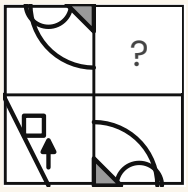



Answer Figures

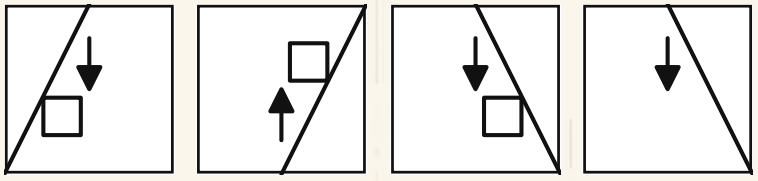


(A) (B) (C) (D)

**2.** Question Figure

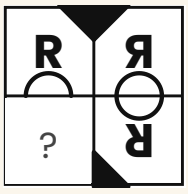



Answer Figures

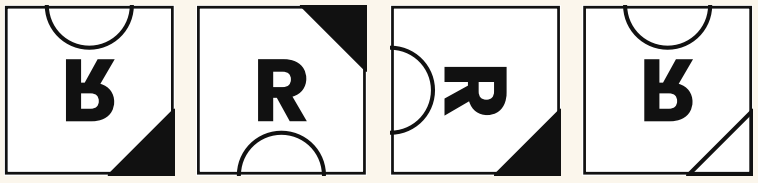


(A) (B) (C) (D)

**3.** Question Figure

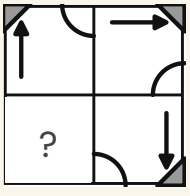



Answer Figures

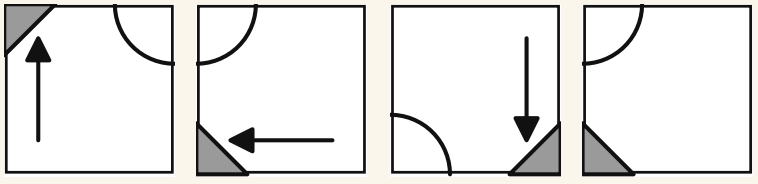


(A) (B) (C) (D)

**4.** Question Figure




Answer Figures



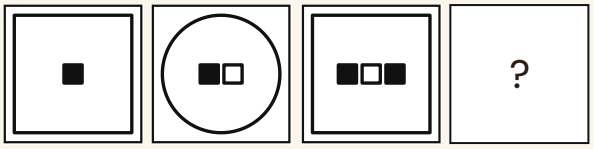
(A) (B) (C) (D)

**Part 2 : Series Completion** (Questions 5 to 8)

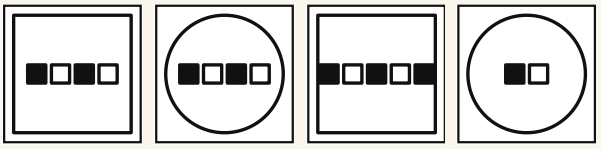
Directions : In Question Nos. 5 to 8, there are three question figures on the left side and the space for the fourth figure (?) is left blank. The question figures are in a series. Observe how the direction, position, number and shading of the elements change, and find the answer figure which occupies the blank space and completes the series. Darken the circle in the OMR Answer Sheet against the number corresponding to the question.

**5.**

Question Figures



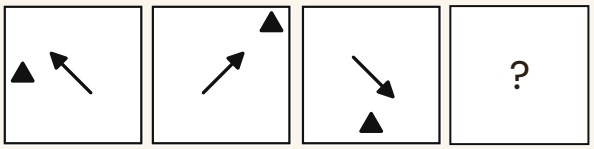
Answer Figures



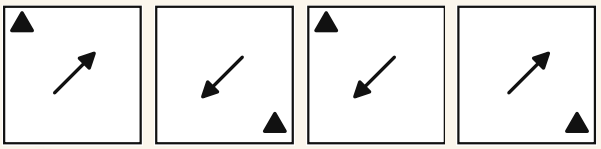
(A) (B) (C) (D)

**6.**

Question Figures



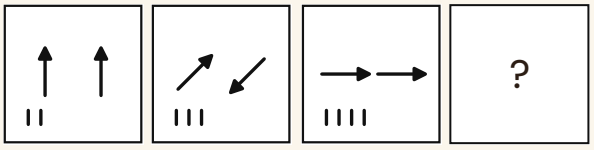
Answer Figures



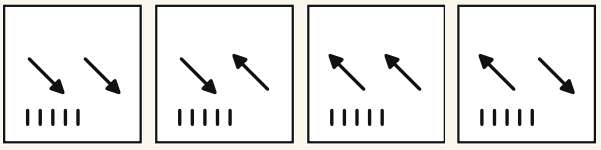
(A) (B) (C) (D)

**7.**

Question Figures



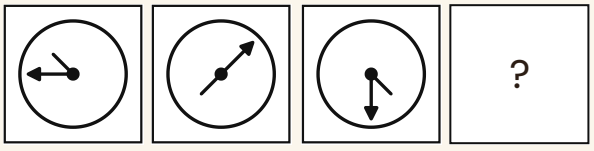
Answer Figures



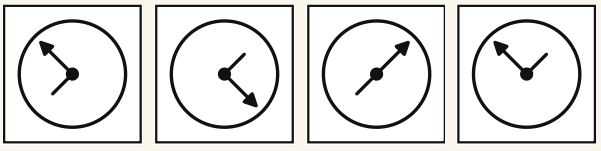
(A) (B) (C) (D)

**8.**

Question Figures



Answer Figures



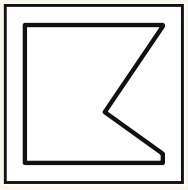
(A) (B) (C) (D)

**Part 3 : Geometrical Figure Completion (Triangle, Square and Circle)** (Questions 9 to 12)

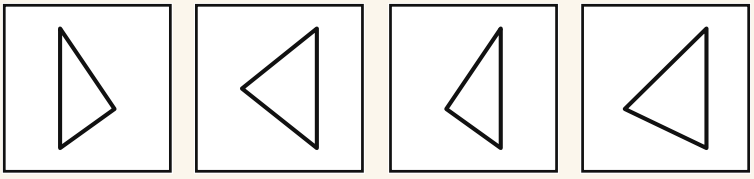
Directions : In Question Nos. 9 to 12, one part of a geometrical figure (Triangle, Square or Circle) is given on the left side as the question figure, and the other part is among the four answer figures (A), (B), (C) and (D) on the right side. Find the answer figure that completes the geometrical figure. The piece may be turned, but it cannot be flipped over (like a mirror image). Darken the circle in the OMR Answer Sheet against the number corresponding to the question.

**9.**

Question Figure

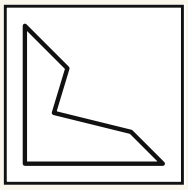


Answer Figures

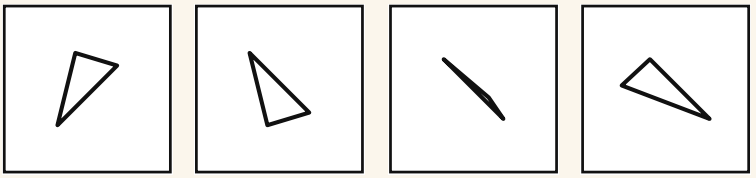


(A) (B) (C) (D)

**10.** Question Figure

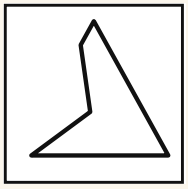


Answer Figures

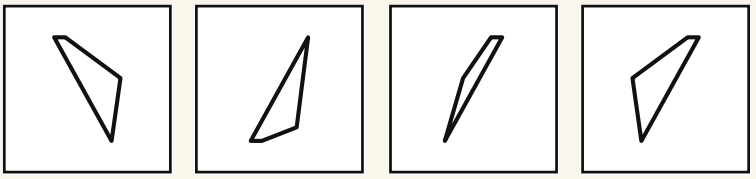


(A) (B) (C) (D)

**11.** Question Figure

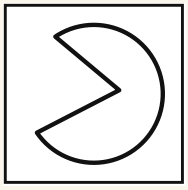


Answer Figures

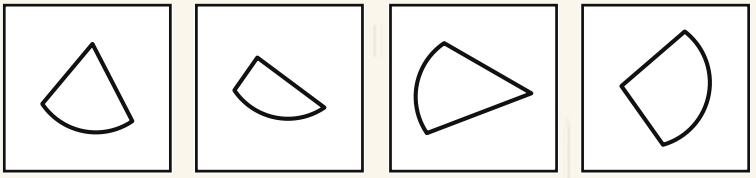


(A) (B) (C) (D)

**12.** Question Figure



Answer Figures

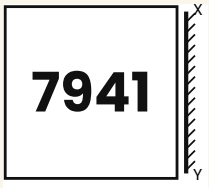


(A) (B) (C) (D)

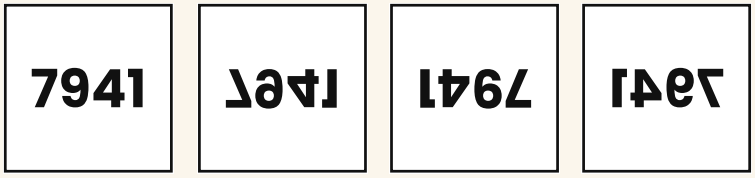
**Part 4 : Mirror Image and Water Image** (Questions 13 to 16)

Directions : In Question Nos. 13 to 16, there is a question figure on the left side and four answer figures (A), (B), (C) and (D) on the right side. A line XY is given beside the question figure. If XY stands upright beside the figure, it is a mirror; if it lies flat below the figure, it is the surface of water. Select the answer figure which is exactly the mirror image or the water image of the question figure. Darken the circle in the OMR Answer Sheet against the number corresponding to the question.

**13.** Question Figure

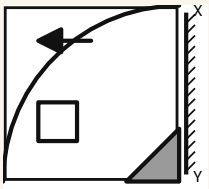



Answer Figures

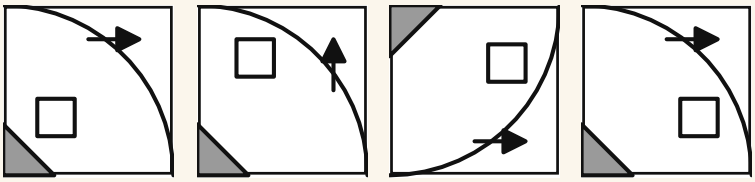


(A) (B) (C) (D)

**14.** Question Figure

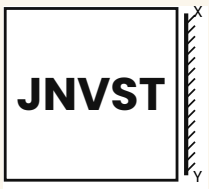



Answer Figures

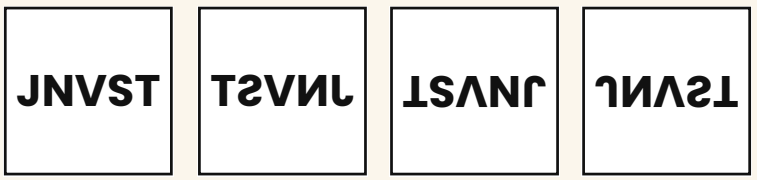


(A) (B) (C) (D)

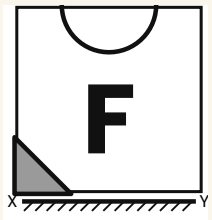
**15.** Question Figure



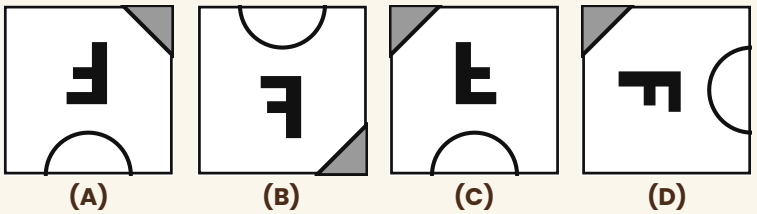

Answer Figures




**16.** Question Figure



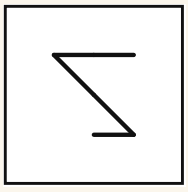

Answer Figures




## Part 5 : Embedded (Hidden) Figure (Questions 17 to 20)

Directions : In Question Nos. 17 to 20, a question figure is given on the left side and four answer figures (A), (B), (C) and (D) are given on the right side. Select the answer figure in which the question figure is hidden (embedded) in the same size and the same direction. Darken the circle in the OMR Answer Sheet against the number corresponding to the question.

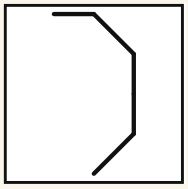
**17.** Question Figure



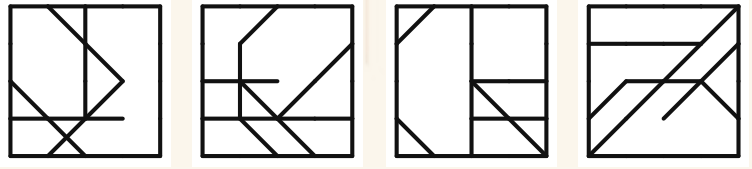
Answer Figures



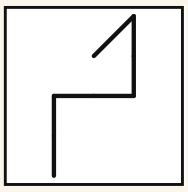

**18.** Question Figure



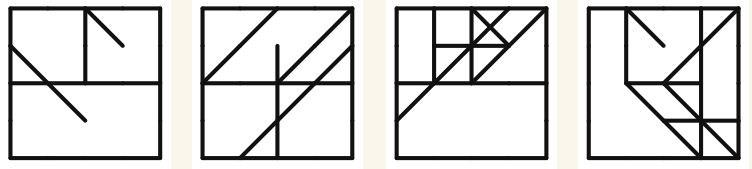
Answer Figures



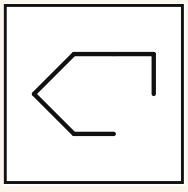

**19.** Question Figure



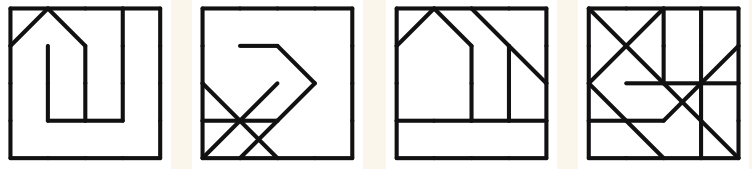
Answer Figures




**20.** Question Figure



Answer Figures



Section 1 (B) • Questions 21 to 40

# Environmental Studies (EVS)

For every question, four probable answers (A), (B), (C) and (D) are given. Only one of these is correct. Questions 36 to 40 are based on a passage. Darken the circle in the OMR Answer Sheet against the number corresponding to the question.

**21.** Which gas in the air is necessary for things to burn?

**(A)** Helium **(B)** Oxygen **(C)** Carbon dioxide **(D)** Nitrogen

**22.** The seeds of which plant are carried far away by the wind?

**(A)** Aak (Madar / Calotropis) **(B)** Coconut
**(C)** Groundnut **(D)** Mango

**23.** The camel is called the 'ship of the desert' because —

**(A)** it walks only at night **(B)** it swims in water
**(C)** it runs very fast **(D)** it can travel easily in the desert

**24.** Rice is widely eaten in Kerala and West Bengal because —

**(A)** it is very cold there **(B)** there are no rivers there
**(C)** these states get heavy rainfall, so paddy grows well **(D)** wheat is not available there

**25.** What should we carry to the market instead of a plastic bag?

**(A)** A paper cup **(B)** A thermocol box
**(C)** A cloth bag **(D)** A new plastic bag

**26.** How many bones are there in the body of an adult human?

**(A)** 106 **(B)** 212 **(C)** 300 **(D)** 206

**27.** Which sense organ tells us whether something is hot or cold, soft or rough?

**(A)** Ear **(B)** Skin **(C)** Nose **(D)** Eyes

**28.** Which disease can be caused by drinking contaminated water?

**(A)** Asthma **(B)** Night blindness **(C)** Malaria **(D)** Cholera

**29.** Which simple machine is the wheel over which a rope is passed to draw water from a well?

**(A)** Inclined plane **(B)** Pulley **(C)** Lever **(D)** Wedge

**30.** What is mainly added to pickles to preserve them for a long time?

**(A)** Milk and curd **(B)** Sugar and water **(C)** Flour and water **(D)** Salt and oil

**31.** What type of pollution is caused by the repeated honking of vehicle horns?

**(A)** Noise pollution **(B)** Soil pollution **(C)** Water pollution **(D)** Light pollution

**32.** What is electricity generated from water falling from a dam called?

**(A)** Hydroelectricity **(B)** Nuclear power
**(C)** Thermal power **(D)** Solar power

**33.** Which planet is called the 'Red Planet'?

**(A)** Venus **(B)** Saturn **(C)** Mars **(D)** Mercury

**34.** Why do we need a shelter (house)?

**(A)** Only for decoration
**(B)** Only to store things
**(C)** Only for guests
**(D)** For protection from sun, wind, rain and cold

**35.** Which local body is responsible for administering large cities?

**(A)** Gram Panchayat
**(B)** Panchayat Samiti
**(C)** Municipal Corporation
**(D)** Gram Sabha

**Read the passage and answer Questions 36 to 40.**

### Mangrove Forests of the Coast

Along our country's coastlines, a special type of forest grows in the marshy areas of creeks. It is called a mangrove forest. The roots of these trees rise above the mud and stand in the air. At high tide, seawater fills these areas, yet the trees continue to survive. Young fish, crabs and prawns grow up safely in the network of mangrove roots. Because of this, fishermen get plenty of fish. During storms and periods of strong waves, these trees act like a wall, protecting the coast and preventing soil erosion. In the past, mangroves were cut down at many places to make room for buildings. Now the government has banned the cutting of mangroves. School students also take part in cleanliness drives in mangrove areas and collect the plastic waste there.

**36.** Where are mangrove forests found?

**(A)** In the marshy areas of creeks
**(B)** In deserts
**(C)** On high mountains
**(D)** In grasslands

**37.** What is special about the roots of mangroves?

**(A)** They go deep into the rocks
**(B)** They rise above the mud and stand in the air
**(C)** They only float on the water
**(D)** They are green like leaves

**38.** How do mangroves help fishermen?

**(A)** They get wood to sell
**(B)** They get fresh water
**(C)** Young fish grow up safely, so fishermen get plenty of fish
**(D)** They get land for farming

**39.** What role do mangroves play during storms?

**(A)** They make the waves bigger
**(B)** They act like a wall and protect the coast
**(C)** They make sea water sweet
**(D)** They stop the rain

**40.** Which step to save mangroves is mentioned in the passage?

**(A)** A ban on cutting mangroves and cleanliness drives
**(B)** Throwing garbage there
**(C)** Filling up the creeks
**(D)** Building houses there

Section 2 • Questions 41 to 60

# Arithmetic Test

For every question, four probable answers (A), (B), (C) and (D) are given. Only one of these is correct. Choose the correct answer and darken the circle in the OMR Answer Sheet against the number corresponding to the question.

**41.** 13 + 5 × 8 - 8 = ?

**(A)** 55 **(B)** 136 **(C)** 45 **(D)** 61

**42.** 1,00,000 + 40,000 + 600 + 4 = ?

**(A)** 1,49,604 **(B)** 1,40,604 **(C)** 14,06,004 **(D)** 1464

**43.** How many metres are there in 9 km 5 m?

**(A)** 905 **(B)** 14 **(C)** 9050 **(D)** 9005

**44.** When a number is multiplied by 18, the answer is 216. What is the number?

**(A)** 198 **(B)** 13 **(C)** 12 **(D)** 11

**45.** 38 + 8 × □ - 2 = 124. Which number comes in the box (□)?

**(A)** 11 **(B)** 12 **(C)** 88 **(D)** 10

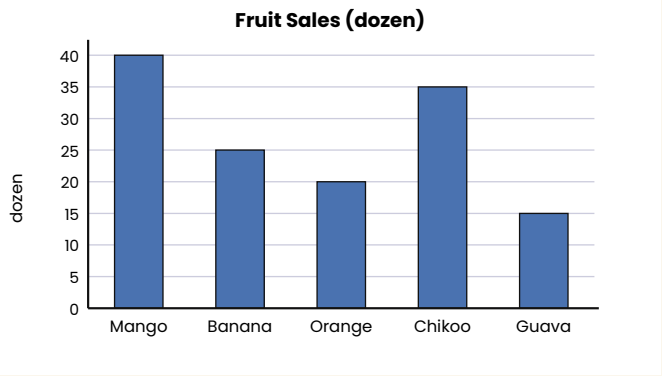
**46.** What is the smaller angle between the hour hand and the minute hand of a clock at 11:30?

**(A)** 180° **(B)** 135° **(C)** 165° **(D)** 150°

**47.** What is the decimal form of $\frac{7}{8}$?

**(A)** 0.875 **(B)** 0.975 **(C)** 0.7 **(D)** 0.08

**48.** According to the bar graph below, which fruit has the second-highest sales?




**(A)** Mango **(B)** Chikoo **(C)** Banana **(D)** Guava

**49.** A trader sold one article costing ₹760 at a profit of ₹40 and another article costing ₹550 at a loss of ₹50. What was his overall loss on the two deals?

**(A)** ₹210 **(B)** ₹90 **(C)** ₹20 **(D)** ₹10

**50.** Which number comes just before 90,00,000?

**(A)** 89,99,999 **(B)** 90,00,001 **(C)** 8,99,999 **(D)** 89,99,990

**51.** The area of a rectangle is 120 cm² and its length is 20 cm. What is its perimeter?

**(A)** 26 cm **(B)** 6 cm **(C)** 54 cm **(D)** 52 cm

**52.** Out of 8.29 m of cloth, 3.10 m was used. How much cloth is left?

**(A)** 11.39 m **(B)** 5.19 m **(C)** 5.09 m **(D)** 6.19 m

**53.** What is the smaller angle between the hour hand and the minute hand of a clock at 8:30?

**(A)** 90° **(B)** 75° **(C)** 105° **(D)** 60°

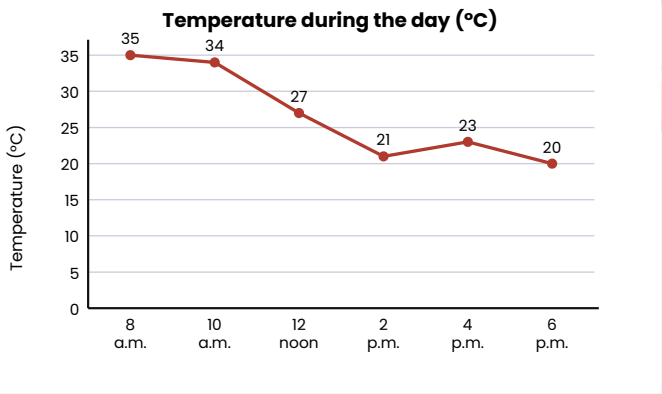
**54.** Which of the following is a prime number?

**(A)** 87 **(B)** 69 **(C)** 51 **(D)** 79

**55.** A bus left at 9:40 a.m. and arrived at 3:07 p.m. How long did the journey take?

**(A)** 6 hours 27 minutes **(B)** 5 hours 37 minutes
**(C)** 5 hours 27 minutes **(D)** 4 hours 27 minutes

**56.** According to the line graph below, at what time was the temperature the highest, and what was it?




**(A)** 8 a.m., 35°C **(B)** 8 a.m., 40°C **(C)** 6 p.m., 20°C **(D)** 10 a.m., 34°C

**57.** A rectangular garden is 27 m long and 14 m wide. What is the area of the garden?

**(A)** 41 m² **(B)** 405 m² **(C)** 378 m² **(D)** 82 m²

**58.** $\frac{1}{13} + \frac{1}{13} = ?$

**(A)** $\frac{1}{13}$ **(B)** $\frac{2}{13}$ **(C)** $\frac{2}{26}$ **(D)** $\frac{3}{13}$

**59.** There are 50 students in a class. 11 of them wear spectacles. What fraction of the students wear spectacles? Give your answer in decimal form.

**(A)** 0.22 **(B)** 0.78 **(C)** 0.11 **(D)** 0.32

**60.** $7\frac{3}{7} - 6\frac{6}{7} = ?$

**(A)** $\frac{3}{7}$ **(B)** $1\frac{4}{7}$ **(C)** $1\frac{3}{7}$ **(D)** $\frac{4}{7}$

**Section 3 • Questions 61 to 80**

# Language Test (English)

There are four passages in this section. Each passage is followed by five questions. Read each passage carefully and answer the questions that follow. For each question, four probable answers (A), (B), (C) and (D) are given. Only one of these is correct. Choose the correct answer and darken the circle in the OMR Answer Sheet against the number corresponding to the question.

**Passage 1** (Questions 61 to 65)

Sai's grandmother had a small kitchen garden behind her house. Tomatoes, brinjals, chillies and marigolds grew in it. During the summer holidays, Sai stayed with her grandmother. Every morning, she saw Grandma putting vegetable peels into a pit. Sai was surprised and asked, "Grandma, why do you throw this waste here?" Grandma smiled and said, "My dear, this is not waste. It is food for the plants. In a few days, these peels will rot and turn into dark, rich manure. The manure makes the soil fertile, so we do not need chemical fertilisers from the market." From that day, Sai watered the garden daily and put the peels into the pit herself. When the holidays ended, Grandma gave her the first red tomatoes from the garden. Back in the city, Sai made a small garden of her own in pots on her balcony.

**61.** Grandma put the vegetable peels into a pit ------.

**(A)** to hide the waste **(B)** to make manure for the plants
**(C)** to feed the animals **(D)** to sell them in the market

**62.** 'Sai watered the garden daily.' Which word in this sentence is an adverb?

**(A)** Sai **(B)** garden **(C)** daily **(D)** watered

**63.** Read statements (i) and (ii) and choose the correct option:
(i) The manure made the soil fertile.
(ii) Grandma bought chemical fertilisers from the market.

**(A)** (i) is true, but (ii) is false. **(B)** (ii) is true, but (i) is false.
**(C)** Both (i) and (ii) are true. **(D)** Both (i) and (ii) are false.

**64.** Which of the following words is an antonym of 'fertile'?

**(A)** rich **(B)** barren **(C)** green **(D)** watered

**65.** Which is the most suitable title for the passage?

**(A)** Sai's School in the City **(B)** Golden Manure from Waste
**(C)** The Vegetable Seller **(D)** Grandma's Kitchen

**Passage 2** (Questions 66 to 70)

Honeybees are hardworking insects that live together in large groups. Their home is called a hive. A hive has one queen bee, a few male bees and thousands of worker bees. The queen bee lays the eggs. The worker bees collect nectar from flowers, keep the hive clean and guard it from enemies. They turn the nectar into honey and store it in the six-sided cells of the hive. When bees move from flower to flower, pollen sticks to their bodies and legs and reaches other flowers. This is called pollination. It helps plants to produce fruits and seeds. So, bees not only give us honey but also help our crops to grow. Today, the number of honeybees is falling because of the poisonous sprays used on farms. We should never destroy beehives without a reason.

**66.** In a hive, the eggs are laid by the ------.

**(A)** queen bee **(B)** male bees **(C)** worker bees **(D)** every bee

**67.** Read statements (i) and (ii) and choose the correct option:

(i) Worker bees lay the eggs in the hive.

(ii) Bees store honey in round cells.

**(A)** (i) is true, but (ii) is false.

**(B)** (ii) is true, but (i) is false.

**(C)** Both (i) and (ii) are true.

**(D)** Both (i) and (ii) are false.

**68.** Pollination helps plants to ------.

**(A)** wither quickly

**(B)** grow taller

**(C)** make honey

**(D)** produce fruits and seeds

**69.** Which of the following words is a synonym of 'hardworking'?

**(A)** lazy **(B)** angry **(C)** diligent **(D)** timid

**70.** The number of honeybees is falling because ------.

**(A)** they live in large groups

**(B)** they make too much honey

**(C)** poisonous sprays are used on farms

**(D)** flowers have no nectar

**Passage 3** (Questions 71 to 75)

Savitribai Phule was born in 1831 at Naigaon in Satara district. In those days, girls were not sent to school. After her marriage, her husband Jotirao Phule taught her to read and write. In 1848, a school for girls was started in Pune, and Savitribai began to teach there. She is known as the first woman teacher of India. On her way to school, some people threw cow dung and stones at her. But she was fearless and did not give up. She carried an extra saree in her bag and changed into it at school. Later, she helped to establish schools for girls in many places. She also wrote poems, and 'Kavya Phule' is her well-known collection of poems. Her dream was that every woman should study and stand on her own feet. Today, many girls study and reach high positions, and Savitribai's work has played a big part in this.

**71.** Who taught Savitribai to read and write?

**(A)** Her husband, Jotirao Phule
**(B)** Her father
**(C)** A teacher at school
**(D)** Her friend

**72.** Savitribai carried an extra saree in her bag because ------.

**(A)** her saree got dirty when people threw cow dung at her
**(B)** she wanted to give it to a girl
**(C)** it was cold on the way
**(D)** there was a function at school

**73.** 'Kavya Phule' is a ------.

**(A)** collection of stories
**(B)** collection of poems
**(C)** collection of essays
**(D)** biography

**74.** Savitribai did not give up even when people troubled her. This shows her ------.

**(A)** fear **(B)** laziness **(C)** pride **(D)** courage

**75.** Which of the following is not a synonym of 'fearless'?

**(A)** brave **(B)** bold **(C)** timid **(D)** courageous

**Passage 4** (Questions 76 to 80)

After Diwali, our school took us on a trip to a fort in the Sahyadri hills. At the foot of the hill, our teacher said, "Nobody will go near the edge of the cliff, and nobody will throw litter." We filled our water bottles and began to climb the stone steps. Halfway up, we were out of breath, but the cool breeze soon took away our tiredness. At the top, we saw a grand gateway, water tanks and bastions. Our guide told us that in earlier times, soldiers kept watch on enemies from the bastions. From the highest point of the fort, the villages and fields below looked like toys. We ate our lunch under a big banyan tree and carried the empty packets back with us. As we came down in the evening, the sky was glowing orange. I will always remember that trip.

**76.** What instruction did the teacher give at the foot of the hill?

**(A)** Climb the fort quickly
**(B)** Eat your lunch in the bus
**(C)** Do not talk to the guide
**(D)** Do not go near the edge of the cliff and do not throw litter

**77.** In earlier times, soldiers kept watch on enemies from the ------.

**(A)** water tanks **(B)** bastions **(C)** gateway **(D)** stone steps

**78.** The children carried the empty packets back with them. This shows that they ------.

**(A)** cared about keeping the fort clean
**(B)** were in a hurry
**(C)** were afraid of the guide
**(D)** were very hungry

**79.** The phrase 'out of breath' means ------.

**(A)** feeling angry
**(B)** feeling hungry
**(C)** breathing fast and with difficulty
**(D)** feeling sleepy

**80.** Which word in the passage means 'very large and impressive'?

**(A)** highest **(B)** cool **(C)** stone **(D)** grand

# OMR ANSWER SHEET

Sample Practice Paper – 01 • JNVST Class 6

**NAME OF THE CANDIDATE**

**DATE**

**SIGNATURE OF THE CANDIDATE**

**ROLL NUMBER**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

**How to mark**

Darken the correct circle completely with a blue/black ballpoint pen.

Correct : ● Wrong : ✓ ✗ ◐

| Mental Ability Q. 1 – 20 | | | | | EVS Q. 21 – 40 | | | | | Arithmetic Q. 41 – 60 | | | | | Language (English) Q. 61 – 80 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q. | A | B | C | D | Q. | A | B | C | D | Q. | A | B | C | D | Q. | A | B | C | D |
| 1 | A | B | C | D | 21 | A | B | C | D | 41 | A | B | C | D | 61 | A | B | C | D |
| 2 | A | B | C | D | 22 | A | B | C | D | 42 | A | B | C | D | 62 | A | B | C | D |
| 3 | A | B | C | D | 23 | A | B | C | D | 43 | A | B | C | D | 63 | A | B | C | D |
| 4 | A | B | C | D | 24 | A | B | C | D | 44 | A | B | C | D | 64 | A | B | C | D |
| 5 | A | B | C | D | 25 | A | B | C | D | 45 | A | B | C | D | 65 | A | B | C | D |
| 6 | A | B | C | D | 26 | A | B | C | D | 46 | A | B | C | D | 66 | A | B | C | D |
| 7 | A | B | C | D | 27 | A | B | C | D | 47 | A | B | C | D | 67 | A | B | C | D |
| 8 | A | B | C | D | 28 | A | B | C | D | 48 | A | B | C | D | 68 | A | B | C | D |
| 9 | A | B | C | D | 29 | A | B | C | D | 49 | A | B | C | D | 69 | A | B | C | D |
| 10 | A | B | C | D | 30 | A | B | C | D | 50 | A | B | C | D | 70 | A | B | C | D |
| 11 | A | B | C | D | 31 | A | B | C | D | 51 | A | B | C | D | 71 | A | B | C | D |
| 12 | A | B | C | D | 32 | A | B | C | D | 52 | A | B | C | D | 72 | A | B | C | D |
| 13 | A | B | C | D | 33 | A | B | C | D | 53 | A | B | C | D | 73 | A | B | C | D |
| 14 | A | B | C | D | 34 | A | B | C | D | 54 | A | B | C | D | 74 | A | B | C | D |
| 15 | A | B | C | D | 35 | A | B | C | D | 55 | A | B | C | D | 75 | A | B | C | D |
| 16 | A | B | C | D | 36 | A | B | C | D | 56 | A | B | C | D | 76 | A | B | C | D |
| 17 | A | B | C | D | 37 | A | B | C | D | 57 | A | B | C | D | 77 | A | B | C | D |
| 18 | A | B | C | D | 38 | A | B | C | D | 58 | A | B | C | D | 78 | A | B | C | D |
| 19 | A | B | C | D | 39 | A | B | C | D | 59 | A | B | C | D | 79 | A | B | C | D |
| 20 | A | B | C | D | 40 | A | B | C | D | 60 | A | B | C | D | 80 | A | B | C | D |

Darken only one circle for each question • Do not do rough work on this page • Do not fold the answer sheet

Answer Key and Explanations

# Sample Practice Paper – 01

### How to use this section

1. Open this section only after you have finished the whole paper.
2. Check your OMR sheet with the answer key below: 1.25 marks for each correct answer.
3. Read the explanations of wrong and skipped questions, then try them again.

## A. Answer Key

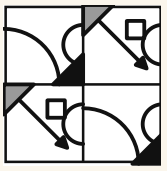
| Mental Ability Q. 1–20 | | EVS Q. 21–40 | | Arithmetic Q. 41–60 | | English Q. 61–80 | |
|---|---|---|---|---|---|---|---|
| Q. No. | Answer | Q. No. | Answer | Q. No. | Answer | Q. No. | Answer |
| 1 | A | 21 | B | 41 | C | 61 | B |
| 2 | C | 22 | A | 42 | B | 62 | C |
| 3 | A | 23 | D | 43 | D | 63 | A |
| 4 | B | 24 | C | 44 | C | 64 | B |
| 5 | B | 25 | C | 45 | A | 65 | B |
| 6 | C | 26 | D | 46 | C | 66 | A |
| 7 | B | 27 | B | 47 | A | 67 | D |
| 8 | D | 28 | D | 48 | B | 68 | D |
| 9 | C | 29 | B | 49 | D | 69 | C |
| 10 | A | 30 | D | 50 | A | 70 | C |
| 11 | D | 31 | A | 51 | D | 71 | A |
| 12 | A | 32 | A | 52 | B | 72 | A |
| 13 | D | 33 | C | 53 | B | 73 | B |
| 14 | D | 34 | D | 54 | D | 74 | D |
| 15 | B | 35 | C | 55 | C | 75 | C |
| 16 | C | 36 | A | 56 | A | 76 | D |
| 17 | C | 37 | B | 57 | C | 77 | B |
| 18 | A | 38 | C | 58 | B | 78 | A |
| 19 | B | 39 | B | 59 | A | 79 | C |
| 20 | D | 40 | A | 60 | D | 80 | D |

| Section | Mental Ability | EVS | Arithmetic | English | Total |
|---|---|---|---|---|---|
| Correct answers | / 20 | / 20 | / 20 | / 20 | / 80 |
| Marks (× 1.25) | / 25 | / 25 | / 25 | / 25 | / 100 |

## B. Question-wise Explanations

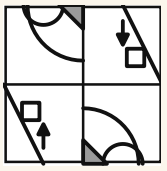
### Mental Ability Test (Questions 1–20)

**Question 1** — Correct answer: **(A)** (the correct figure is shown alongside)



**Explanation:** The parts that face each other diagonally are exactly the same: the first and fourth parts are alike, and the second and third parts are alike. Using this rule, the figure for the blank first (top-left) part has been chosen. (See the complete figure alongside.)

**Question 2** — Correct answer: **(C)** (the correct figure is shown alongside)



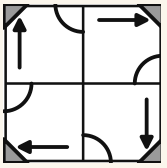
**Explanation:** The diagonal parts are 180° turns of each other: turning the first part through 180° gives the fourth part, and turning the second part through 180° gives the third part. Using this rule, the figure for the blank second (top-right) part has been chosen. (See the complete figure alongside.)

**Question 3** — Correct answer: **(A)** (the correct figure is shown alongside)



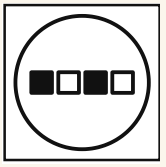
**Explanation:** The whole figure is symmetrical about its vertical and horizontal middle lines: the second part is the mirror image of the first part, and the third part is its water image. Using this rule, the figure for the blank third (bottom-left) part has been chosen. (See the complete figure alongside.)

**Question 4** — Correct answer: **(B)** (the correct figure is shown alongside)



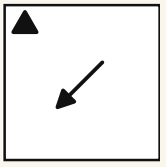
**Explanation:** Turning the first part 90° clockwise gives the second part; another 90° turn gives the fourth (bottom-right) part, and one more 90° turn gives the third (bottom-left) part. Using this rule, the figure for the blank third (bottom-left) part has been chosen. (See the complete figure alongside.)

**Question 5** — Correct answer: **(B)** (the correct figure is shown alongside)



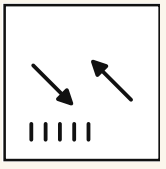
**Explanation:** The number of inner marks increases by one each time (black and white alternately), and the outer shape changes between a circle and a square. Using this rule, the fourth figure has been chosen.

**Question 6** — Correct answer: **(C)** (the correct figure is shown alongside)



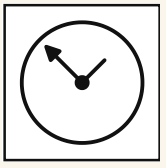
**Explanation:** The central arrow turns 90° clockwise each time, and the mark on the edge moves 3 places forward in the clockwise direction. Using this rule, the fourth figure has been chosen.

**Question 7** — Correct answer: **(B)** (the correct figure is shown alongside)



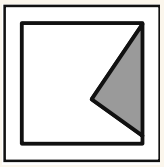
**Explanation:** The left arrow turns 45° clockwise and the right arrow turns 135° anticlockwise each time; also, the number of vertical lines at the bottom increases by one. Using this rule, the fourth figure has been chosen.

**Question 8** — Correct answer: **(D)** (the correct figure is shown alongside)



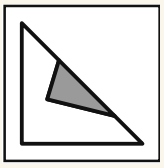
**Explanation:** The short hand turns 90° anticlockwise each time, and the long hand with the arrow turns 135° clockwise. Using this rule, the fourth figure has been chosen.

**Question 9** — Correct answer: **(C)** (the correct figure is shown alongside)



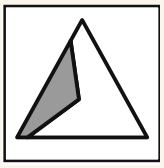
**Explanation:** The side lengths and angles of the gap match the piece in option (C) exactly. Turning this piece as needed (without flipping it) and placing it in the gap completes the square (see the figure alongside). The piece in option (A) is the mirror image (flipped version) of this piece, so it does not fit. The pieces in the other options do not match in length or angle.

**Question 10** — Correct answer: **(A)** (the correct figure is shown alongside)



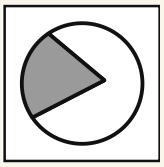
**Explanation:** The side lengths and angles of the gap match the piece in option (A) exactly. Turning this piece as needed (without flipping it) and placing it in the gap completes the right-angled triangle (see the figure alongside). The piece in option (B) is the mirror image (flipped version) of this piece, so it does not fit. The pieces in the other options do not match in length or angle.

**Question 11** — Correct answer: **(D)** (the correct figure is shown alongside)



**Explanation:** The side lengths and angles of the gap match the piece in option (D) exactly. Turning this piece as needed (without flipping it) and placing it in the gap completes the triangle (see the figure alongside). The piece in option (A) is the mirror image (flipped version) of this piece, so it does not fit. The pieces in the other options do not match in length or angle.

**Question 12** — Correct answer: **(A)** (the correct figure is shown alongside)



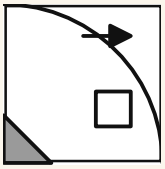
**Explanation:** The side lengths and angles of the gap match the piece in option (A) exactly. Turning this piece as needed (without flipping it) and placing it in the gap completes the circle (see the figure alongside). The pieces in the other options do not match in length or angle.

**Question 13** — Correct answer: **(D)** (the correct figure is shown alongside)




**Explanation:** The mirror (XY) stands to the right of the figure. In a mirror image, left and right are interchanged, but top and bottom stay the same. So the option in which the digits appear reversed is correct. The other options show the other kind of image, a turned figure, or digits that are not reversed.

**Question 14** — Correct answer: **(D)** (the correct figure is shown alongside)



**Explanation:** The mirror (XY) stands to the right of the figure. In a mirror image, left and right are interchanged, but top and bottom stay the same. So the option in which every part of the figure appears reversed is correct. The other options show the other kind of image, a figure turned through 180°, or a figure that is only half reversed.

**Question 15** — Correct answer: **(B)** (the correct figure is shown alongside)




**Explanation:** The mirror (XY) stands to the right of the figure. In a mirror image, left and right are interchanged, but top and bottom stay the same. So the option in which the letters appear reversed is correct. The other options show the other kind of image, a turned figure, or letters that are not reversed.

**Question 16** — Correct answer: **(C)** (the correct figure is shown alongside)



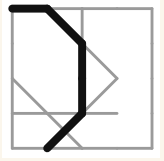
**Explanation:** The water line (XY) is below the figure. In a water image, top and bottom are interchanged, but left and right stay the same. So the option in which every part of the figure appears upside down is correct. The other options show the other kind of image, a figure turned through 180°, or a figure that is only half reversed.

**Question 17** — Correct answer: **(C)** (the correct figure is shown alongside)



**Explanation:** The question figure is made of 3 connected line segments (straight, horizontal/vertical and slanting). This exact figure, in the same size and the same direction, appears only in the top-left part of the correct answer figure (shown with thick lines in the figure alongside). In the other answer figures it is flipped or turned, so they are not correct.

**Question 18** — Correct answer: **(A)** (the correct figure is shown alongside)



**Explanation:** The question figure is made of 4 connected line segments (straight, horizontal/vertical and slanting). This exact figure, in the same size and the same direction, appears only in the middle-left part of the correct answer figure (shown with thick lines in the figure alongside). In the other answer figures it is flipped or turned, so they are not correct.

**Question 19** — Correct answer: **(B)** (the correct figure is shown alongside)



**Explanation:** The question figure is made of 4 connected line segments (straight, horizontal/vertical and slanting). This exact figure, in the same size and the same direction, appears only in the middle-right part of the correct answer figure (shown with thick lines in the figure alongside). In the other answer figures it is flipped or turned, so they are not correct.

**Question 20** — Correct answer: **(D)** (the correct figure is shown alongside)



**Explanation:** The question figure is made of 5 connected line segments (straight, horizontal/vertical and slanting). This exact figure, in the same size and the same direction, appears only in the top-right part of the correct answer figure (shown with thick lines in the figure alongside). In the other answer figures it is flipped or turned, so they are not correct.

## Environmental Studies (EVS) (Questions 21–40)

**Question 21** — Correct answer: **(B) Oxygen**

**Explanation:** Burning needs oxygen. That is why a burning lamp goes out when an upturned glass is placed over it.

**Question 22** — Correct answer: **(A) Aak (Madar / Calotropis)**

**Explanation:** Aak seeds have fine, cotton-like hairs, so the wind carries them far away.

**Question 23** — Correct answer: **(D) it can travel easily in the desert**

**Explanation:** A camel's broad feet do not sink in the sand, and it can live for many days without water.

**Question 24** — Correct answer: **(C) these states get heavy rainfall, so paddy grows well**

**Explanation:** Paddy needs a lot of water, and these states receive heavy rainfall.

**Question 25** — Correct answer: **(C) A cloth bag**
**Explanation:** A cloth bag can be used many times, and it reduces plastic waste.

**Question 26** — Correct answer: **(D) 206**
**Explanation:** The body of an adult human has 206 bones.

**Question 27** — Correct answer: **(B) Skin**
**Explanation:** Through the skin we feel touch, temperature and pain.

**Question 28** — Correct answer: **(D) Cholera**
**Explanation:** Cholera, jaundice and typhoid are diseases caused by contaminated water.

**Question 29** — Correct answer: **(B) Pulley**
**Explanation:** A wheel over which a rope is passed is called a pulley. It makes it easier to pull a load upwards.

**Question 30** — Correct answer: **(D) Salt and oil**
**Explanation:** Salt and oil stop the growth of microbes, so the pickle does not spoil for a long time.

**Question 31** — Correct answer: **(A) Noise pollution**
**Explanation:** Loud and unpleasant sounds cause noise pollution.

**Question 32** — Correct answer: **(A) Hydroelectricity**
**Explanation:** Flowing water turns turbines to produce hydroelectricity.

**Question 33** — Correct answer: **(C) Mars**
**Explanation:** Mars looks red because its soil contains iron.

**Question 34** — Correct answer: **(D) For protection from sun, wind, rain and cold**
**Explanation:** A house protects us from the weather and from dangers.

**Question 35** — Correct answer: **(C) Municipal Corporation**
**Explanation:** Big cities are run by a Municipal Corporation, which is headed by the Mayor.

**Question 36** — Correct answer: **(A) In the marshy areas of creeks**
**Explanation:** The passage says that a special type of forest grows in the marshy areas of creeks along our coastlines; it is called a mangrove forest.

**Question 37** — Correct answer: **(B) They rise above the mud and stand in the air**
**Explanation:** According to the passage, the roots of these trees rise above the mud and stand in the air.

**Question 38** — Correct answer: **(C) Young fish grow up safely, so fishermen get plenty of fish**
**Explanation:** Young fish, crabs and prawns grow up safely in the network of mangrove roots, so fishermen get plenty of fish.

**Question 39** — Correct answer: **(B) They act like a wall and protect the coast**
**Explanation:** The passage says that during storms mangroves act like a wall, protecting the coast and preventing soil erosion.

**Question 40** — Correct answer: **(A) A ban on cutting mangroves and cleanliness drives**
**Explanation:** The government has banned the cutting of mangroves, and students take part in cleanliness drives in mangrove areas.

## Arithmetic Test (Questions 41–60)

**Question 41** — Correct answer: **(C) 45**
**Explanation:** First multiply: 5 × 8 = 40. Then work from the left: 13 + 40 - 8 = 45.

**Question 42** — Correct answer: **(B) 1,40,604**
**Explanation:** This is 1 lakh, 4 ten-thousands, 0 thousands, 6 hundreds, 0 tens and 4 ones. So the number is 1,40,604.

**Question 43** — Correct answer: **(D) 9005**
**Explanation:** 1 km = 1000 m. 9 × 1000 + 5 = 9005 m.

**Question 44** — Correct answer: **(C) 12**
**Explanation:** Number = 216 ÷ 18 = 12. (Check: 18 × 12 = 216)

**Question 45** — Correct answer: **(A) 11**
**Explanation:** 8 × □ = 124 - 38 + 2 = 88. So □ = 88 ÷ 8 = 11.

**Question 46** — Correct answer: **(C) 165°**
**Explanation:** In 30 minutes the hour hand moves 15°. At 11:30 the hour hand is at 330° + 15° = 345° from 12, and the minute hand is at 180°. Difference = 345° - 180° = 165°.

**Question 47** — Correct answer: **(A) 0.875**
**Explanation:** 8 × 125 = 1000. Multiplying the numerator and the denominator by 125: $\frac{7}{8} = \frac{875}{1000} = 0.875$.

**Question 48** — Correct answer: **(B) Chikoo**
**Explanation:** Sales in decreasing order: Mango 40, Chikoo 35, Banana 25, Orange 20, Guava 15 dozen. Chikoo has the second-highest sales.

**Question 49** — Correct answer: **(D) ₹10**
**Explanation:** He sold the first article for 760 + 40 = ₹800 and the second for 550 - 50 = ₹500. Total cost price = 760 + 550 = ₹1310; total selling price = 800 + 500 = ₹1300. Loss = 1310 - 1300 = ₹10.

**Question 50** — Correct answer: **(A) 89,99,999**
**Explanation:** The number just before = 90,00,000 - 1 = 89,99,999.

**Question 51** — Correct answer: **(D) 52 cm**
**Explanation:** Breadth = 120 ÷ 20 = 6 cm. Perimeter = 2 × (20 + 6) = 52 cm.

**Question 52** — Correct answer: **(B) 5.19 m**
**Explanation:** Cloth left = 8.29 - 3.10 = 5.19 m.

**Question 53** — Correct answer: **(B) 75°**
**Explanation:** In 30 minutes the hour hand moves 15°. At 8:30 the hour hand is at 240° + 15° = 255° from 12, and the minute hand is at 180°. Difference = 255° - 180° = 75°.

**Question 54** — Correct answer: **(D) 79**
**Explanation:** 87 = 3 × 29, 69 = 3 × 23 and 51 = 3 × 17. 79 has only two factors, 1 and 79. So 79 is a prime number.

**Question 55** — Correct answer: **(C) 5 hours 27 minutes**
**Explanation:** From 9:40 a.m. to 12 noon = 2 hours 20 minutes. From 12 noon to 3:07 p.m. = 3 hours 7 minutes. Total = 5 hours 27 minutes.

**Question 56** — Correct answer: **(A) 8 a.m., 35°C**
**Explanation:** Temperatures in the line graph: 8 a.m. – 35°, 10 a.m. – 34°, 12 noon – 27°, 2 p.m. – 21°, 4 p.m. – 23°, 6 p.m. – 20°. The highest temperature, 35°C, was at 8 a.m.

**Question 57** — Correct answer: **(C) 378 m²**
**Explanation:** Area of a rectangle = length × breadth = 27 × 14 = 378 m².

**Question 58** — Correct answer: **(B) $\frac{2}{13}$**
**Explanation:** To add like fractions, add only the numerators; the denominator stays the same: 1 + 1 = 2. Answer: $\frac{2}{13}$.

**Question 59** — Correct answer: **(A) 0.22**
**Explanation:** Part = $\frac{11}{50}$. Multiplying the numerator and the denominator by 2: $\frac{22}{100}$ = 0.22.

**Question 60** — Correct answer: **(D) $\frac{4}{7}$**
**Explanation:** $7\frac{3}{7} = \frac{52}{7}$ and $6\frac{6}{7} = \frac{48}{7}$. $\frac{52}{7} - \frac{48}{7} = \frac{4}{7}$.

## Language Test (English) (Questions 61–80)

**Question 61** — Correct answer: **(B) to make manure for the plants**
**Explanation:** Grandma says the peels are 'food for the plants'; they rot and turn into manure.

**Question 62** — Correct answer: **(C) daily**
**Explanation:** 'Daily' tells us how often Sai watered the garden, so it is an adverb of frequency. 'Sai' and 'garden' are nouns, and 'watered' is a verb.

**Question 63** — Correct answer: **(A) (i) is true, but (ii) is false.**
**Explanation:** The passage says the manure makes the soil fertile, so (i) is true. Because of the manure they do not need chemical fertilisers, so (ii) is false.

**Question 64** — Correct answer: **(B) barren**
**Explanation:** 'Fertile' land grows good crops. Its opposite is 'barren' — land on which nothing grows.

**Question 65** — Correct answer: **(B) Golden Manure from Waste**
**Explanation:** The passage is about turning vegetable peels into manure for the garden, so 'Golden Manure from Waste' is the most suitable title.

**Question 66** — Correct answer: **(A) queen bee**
**Explanation:** The passage says, 'The queen bee lays the eggs.'

**Question 67** — Correct answer: **(D) Both (i) and (ii) are false.**
**Explanation:** The queen bee lays the eggs, so (i) is false. Honey is stored in six-sided cells, not round cells, so (ii) is also false.

**Question 68** — Correct answer: **(D) produce fruits and seeds**
**Explanation:** The passage says that pollination 'helps plants to produce fruits and seeds'.

**Question 69** — Correct answer: **(C) diligent**
**Explanation:** A hardworking person works with great effort, that is, he or she is 'diligent'. 'Lazy' is its opposite.

**Question 70** — Correct answer: **(C) poisonous sprays are used on farms**
**Explanation:** The passage says the number of honeybees is falling 'because of the poisonous sprays used on farms'.

**Question 71** — Correct answer: **(A) Her husband, Jotirao Phule**
**Explanation:** The passage says that her husband Jotirao Phule taught her to read and write.

**Question 72** — Correct answer: **(A) her saree got dirty when people threw cow dung at her**
**Explanation:** People threw cow dung and stones at her on the way, so she changed her dirty saree at school.

**Question 73** — Correct answer: **(B) collection of poems**
**Explanation:** The passage says that 'Kavya Phule' is her well-known collection of poems.

**Question 74** — Correct answer: **(D) courage**
**Explanation:** She went on teaching in spite of insults and hardships; this shows her courage.

**Question 75** — Correct answer: **(C) timid**
**Explanation:** 'Brave', 'bold' and 'courageous' mean almost the same as 'fearless'. 'Timid' means shy and easily frightened, which is the opposite.

**Question 76** — Correct answer: **(D) Do not go near the edge of the cliff and do not throw litter**
**Explanation:** The teacher said, 'Nobody will go near the edge of the cliff, and nobody will throw litter.'

**Question 77** — Correct answer: **(B) bastions**
**Explanation:** The guide told them that soldiers kept watch on enemies from the bastions.

**Question 78** — Correct answer: **(A) cared about keeping the fort clean**
**Explanation:** Bringing the waste back instead of leaving it on the fort shows that they cared about cleanliness and nature.

**Question 79** — Correct answer: **(C) breathing fast and with difficulty**
**Explanation:** While climbing, they were breathing fast and with difficulty; this is what 'out of breath' means.

**Question 80** — Correct answer: **(D) grand**
**Explanation:** 'A grand gateway' means a very large and impressive gateway, so the answer is 'grand'.

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