

DAV PUBLIC SCHOOLS, DELHI NCR
SAMPLE PAPER - MID TERM (2026-27)
CLASS - VI SUBJECT - SCIENCE

TIME: 3 HOURS

M.M.: 80

General Instructions:

1. All questions are compulsory.
2. The question paper comprises of 6 pages and five sections - A, B, C, D and E. There are 39 questions in the question paper.
3. There will be no overall choice in the question paper, but there will be an internal choice in 1 question of Section B, 1 question of Section C and 3 questions of Section D.
4. Section-A consists of 20 Multiple Choice Questions (Q. No. 1 to 20), carrying 1 mark each.
5. Section-B consists of 6 very short answer questions (Q. No. 21 to 26), carrying 2 marks each.
6. Section-C consists of 7 short answer type questions (Q. No. 27 to 33), carrying 3 marks each.
7. Section-D (Q. No. 34 to 36) consists of 3 long answer type questions carrying 5 marks each.
8. Section-E (Q. No. 37 to 39) consists of 3 questions of 4 marks each.
9. Reading time of 15 minutes will be given to the students.

SECTION - A

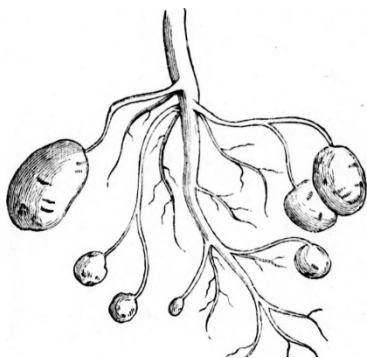
1. Select the pair of waste materials which can be classified as non-biodegradable: (1)
(A) Vegetable peels, paper (B) Polythene, plastic
(C) Animal waste, jute (D) Clothes, glass
2. Oxygen is released into the atmosphere by plants during the process of: (1)
(A) Respiration (B) Photosynthesis
(C) Combustion (D) Vermicomposting
3. The standard unit of Mass is: (1)
(A) Gram (B) Kilogram
(C) Meter (D) Kilometer
4. Identify the type of motion as depicted in the image shown below: (1)



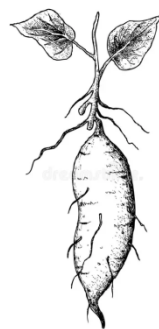
- (A) Rectilinear motion (B) Curvilinear motion
(C) Oscillatory motion (D) Circular motion
5. While travelling to a hill station, a car moves on a road with many turns. The motion of the car is: (1)
(A) Rectilinear motion (B) Curvilinear motion
(C) Oscillatory motion (D) Rotatory motion

6. A separating funnel is commonly used for separating: (1)
(A) Two solids (B) A solid and a liquid
(C) Miscible liquids (D) Immiscible liquids
7. Riya opened a bottle of perfume in one corner of the room. After a few minutes, everyone in the room could smell it. This process is called: (1)
(A) Dissolution (B) Solubility
(C) Saturation (D) Diffusion
8. The process of winnowing is commonly used by farmers to separate: (1)
(A) Stones from rice (B) Husk from grains
(C) Sugar from flour (D) Salt from sand
9. A dairy farmer in a village uses a milk separator machine to separate cream from milk. The method used is: (1)
(A) Filtration (B) Evaporation
(C) Centrifugation (D) Crystallization
10. The image formed by a pinhole camera is: (1)
(A) Erect and magnified (B) Inverted and diminished
(C) Virtual and erect (D) Upright and enlarged
11. A student is 150 cm tall and stands in front of a plane mirror. Which statement is correct about the image formed? (1)
(A) The image is taller than the student.
(B) The image is shorter than the student.
(C) The image is of the same size as the student.
(D) The image changes size when the student moves closer.
12. During a solar eclipse, Rohan notices that it becomes darker for a short time during the day. This happens because: (1)
(A) The Moon comes between the Sun and the Earth.
(B) The Earth comes between the Sun and the Moon.
(C) Clouds completely cover the Sun.
(D) The Sun stops giving light for a short time.
13. Materials that do not allow light to pass through them are listed in: (1)
(A) Wood, brick, metal plate
(B) Clear glass, water, air
(C) Butter paper, frosted glass, tracing paper
(D) Glass, plastic sheet, water

14. The bubbles that appear after opening a soda water bottle are made of: (1)
 (A) Oxygen (B) Carbon dioxide
 (C) Hydrogen (D) Nitrogen
15. Plants which feed on dead and decaying bodies are called: (1)
 (A) Xerophytes (B) Saprophytes
 (C) Hydrophytes (D) Parasites
16. Rohan saw a huge tree with hanging roots growing from its branches. His science teacher explained that the same tree also has roots growing underground. Name the plant. (1)
 (A) Banyan tree (B) Carrot
 (C) Sweet potato (D) Turnip
17. Identify the group of plants that have woody stems and are shorter than trees. (1)
 (A) Rose, Hibiscus, Cotton (B) Mango, Banyan, Neem
 (C) Mint, Coriander, Spinach (D) Lotus, Water lily, Hydrilla
18. Observe the pictures of Plant A and Plant B. Which statement is correct? (1)



A



B

- (A) Both A and B are underground stems.
 (B) A is an underground root, while B is an underground stem.
 (C) A is an underground stem, while B is an underground root.
 (D) Both A and B are underground roots.
19. A gardener was able to grow a new Bryophyllum plant using only a leaf. This was possible because the Bryophyllum leaf acts as a: (1)
 (A) Storage organ (B) Reproductive organ
 (C) Protective organ (D) Climbing organ
20. The part of a leaf that attaches the leaf blade to the stem is called: (1)
 (A) Lamina (B) Midrib
 (C) Petiole (D) Vein

SECTION - B

21. Observe the pictures carefully and classify each organism according to its food habit. (2)



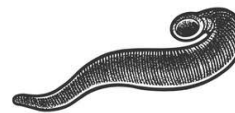
(A) _____



(B) _____



(C) _____



(D) _____

OR

Write one example of each of the following:

- (A) An egg-laying animal
 - (B) An animal that gives birth to its young ones
 - (C) An organism that reproduces by dividing its body
 - (D) A bird that lays eggs
22. Draw a cycle which shows how nature maintains a balance between the amount of oxygen and carbon dioxide in the atmosphere. (2)

23. Observe the given picture and answer the following: (2)



- (A) Name the substance tied to the thread and state its role in the purification of muddy water.
 - (B) Name the process shown in the given picture.
24. Write the correct method of separation for each of the following mixtures: (2)
- (A) Peas from rice
 - (B) Flour and bran
 - (C) Iron nails and sand
 - (D) Camphor and sand

25. Plants like cactus have leaves modified into spines. Mention any two benefits of this modification. (2)

26. How is a tap root different from a fibrous root? Give one example of each type. (2)

SECTION - C

27. State the conditions necessary for the formation of a shadow. (3)

28. Draw a diagram that shows the relationship between the biotic and the abiotic components of the environment. (3)

29. (3)

(A) Why do buffaloes cool themselves in water during summer?

(B) Explain how camels survive comfortably in the extreme heat of the desert.

(C) Name any two animals found only in cold regions.

30. Pure water is a transparent liquid. Briefly describe an activity to prove this statement. Also, write any two other examples of transparent substances. (3)

31. (3)

(A) Ria measures the length of a string by placing one end at the 2 cm mark of a ruler. If the other end is at the 90.5 cm mark, find the length of the string.

(B) Write any two precautions to be followed while using a metre scale to measure a given length.

32. Categorise the following pictures of plants on the basis of their height, size and shape. Write any one characteristic of each. (3)



(A) Peepal



(B) Grass



(C) Rose plant

33. (3)

(A) Draw a stamen and label its two parts.

(B) State the function of both the parts.

OR

Draw a well labelled structure of a leaf and explain any one function of the leaf.

SECTION – D

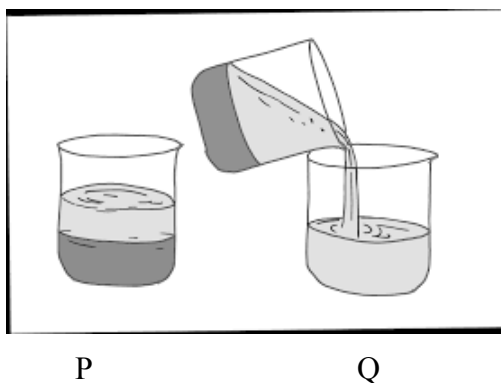
34.

- (A) Define lateral inversion. (5)
(B) Write the differences between shadow and image. (two points)
(C) Draw the ray diagram to depict the lunar eclipse.

OR

With the help of suitable diagrams, demonstrate how the size of a shadow depends on the relative positions of the light source, the opaque object, and the screen. Explain your observations and write the conclusion.

35. Observe the figure given below carefully and answer the following questions: (5)



- (A) Identify the process shown in the figure P and Q.
(B) Give one example from daily life where these processes are used.
(C) Sawdust mixed with water cannot be separated by this method. Give a reason.

OR

- (A) Write the difference between pure substance and mixture (any one point). Give one example of each.
(B) How can one separate the mixture of common salt, sand and iron nails?

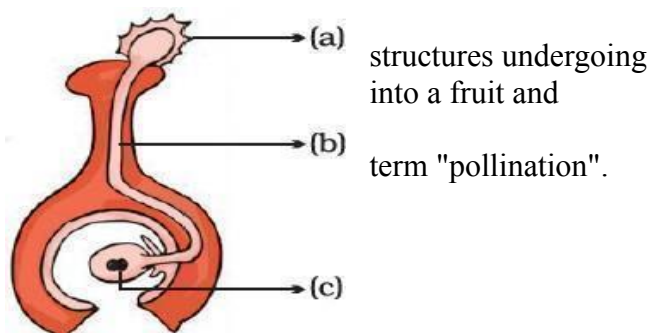
36.

- (A) Roots perform many important functions. State any three functions of roots
(B) Explain any two types of root modifications with one example each. (5)

OR

- (A) In the diagram given below, label the parts marked (a), (b) and (c) and write the function of each part.

- (B) Name the floral transformation to develop seeds.
(C) Give the meaning of the



SECTION - E

37. (4)

(A) Are you an autotroph or heterotroph? Give one reason in support of your answer.

(B) Complete the given table.

	Hydrophytes	Xerophytes
Habitat		
Water requirement		
Roots		

38. (4)

(A) What will happen if ice cubes are put in a glass of cold drink? (Sink/Float)

Explain your answer.

(B) Solids have fixed shape and definite volume. Explain the given statement with the help of one point.

(C) Why do materials diffuse into each other? Arrange solid, liquid and gas on the basis of rate of diffusion in their decreasing order.

39. (4)

(A) Why is a foot step, or a hand span, not used as a standard unit of length?

(B) Define the term motion.

(C) State the difference between a periodic and non-periodic motion. Give one example of each.