



CLASS: VI

MAX. MARKS: 80

DATE: 12.03.2020

DURATION: 3 HRS

**General Instructions:**

1. The question paper comprises three sections – **A**, **B** and **C**. Attempt all the sections.
2. All questions are compulsory.
3. Internal choice is given in section **B** and **C**.
4. All questions in Section **A** are one-mark questions comprising MCQ, VSA type and assertion-reason type questions. They are to be answered in one word or in one sentence.
5. All questions in Section **B** are three-mark, short-answer type questions. These are to be answered in about **50 - 60** words each.
6. All questions in Section **C** are five-mark, long-answer type questions. These are to be answered in about **80 – 90** words each.
7. This question paper consists of a total of **33** questions.

**SECTION A**

**Read the given passage and answer the following four questions:**

Adaptations are the special features that help an animal live and survive in certain places or habitats. There are three kinds of animal adaptations: Behavioral, Physical, and Life Cycle.

A behavioral adaptation is something an organism does, a behavior it performs to help it survive. Sounds animals make for different reasons are behavioral adaptations. Bird calls are an example. It is a behavior the bird does to communicate to other birds.

A physical adaptation is a physical part of an organism that helps it survive. The fur on a bear is an example of physical adaptation, because it is part of the bear's body structure and helps keep it warm during cold weather.

A life cycle adaptation is a process an animal goes through to help it survive. Butterflies go through four stages of life. They start out as eggs; change into a caterpillar, then a pupa, and finally an adult butterfly.

All of the adaptations help an animal survive, scare off predators, or communicating with others.

1. a) Define adaptation? (1)  
b) Give an example of a physical adaptation? (1)  
c) Which among the following animal shows life cycle adaptation? (1)  
A) Crow B) Crocodile C) Butterfly D) Cat  
d) How does adaptation help animals? (1)

**Choose the correct answer from the given options:**

2. Which of the following gases is required for the burning process to happen? (1)  
A) nitrogen B) oxygen  
C) carbon dioxide D) water vapour
3. The image formed by a pinhole camera appears to be. (1)  
A) upright B) curved  
C) upside down D) sideways
4. Which of the following will not form a shadow? (1)  
A) Hand B) Clear glass  
C) Cardboard D) Chair

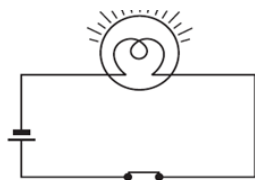
5. How much will 8 km measure in meters? (1)  
 A) 8000 m B) 800 m  
 C) 8 m D) 0.8 m
6. Lamina is a part of which of the following parts of a plant. (1)  
 A) flower B) leaf  
 C) root D) stem
7. When north pole of a magnet is brought close to the south pole of another magnet they will (1)  
 A) repel B) attract  
 C) show no response D) none of these
8. Well water is water fed by (1)  
 A) pond water B) lake water  
 C) rain water D) ground water
9. An electric circuit which is not complete is called. (1)  
 A) open B) short  
 C) closed D) universal

In the following question, a statement of assertion (A) & a corresponding statement of reason(R) are given. Choose the most appropriate option.

- i) A is false and R is a correct explanation of A.  
 ii) Both A and R is true and R is the correct explanation of A.  
 iii) Both A and R is false.  
 iv) A is true but R is false.
10. **Assertion (A):** Sun gives light of its own. (1)  
**Reason (R):** Sun is a natural source of energy.
11. **Assertion (A):** Cubit is the length from the elbow to the middle finger tip. (1)  
**Reason (R):** Cubit is the standard unit of measurement.
12. What are biotic and abiotic components? (1)  
 13. Compost is better to use then chemical fertilizer. Why? (1)  
 14. Why do we need a switch in a circuit? (1)  
 15. How are petals different from sepals? (1)  
 16. Give scientific term for the “hiding by merging with the surrounding”. (1)  
 17. Justify why we should not see the sun directly. (1)

### SECTION B

18. Can the stem of a plant be compared with a street with two-way traffic? Give reason. (3)  
 19. a) Define electric circuit. (3)  
 b) Give one reason why a bulb might not work when you fit it into a circuit.  
 c) Name the type of circuit shown in the figure and write any one component of a circuit.



20. Camels are called ship of the desert. Explain. (3)  
 21. a) Mention the motion applicable in apple falling from a tree and define it. (3)

- b) Differentiate between motion and rest (any one point).
- c) Cubit or a foot step cannot be considered as a standard unit of length. Explain.

22. a) What is reflection of light? (3)
- b) State any one difference between images formed in pinhole camera and shadow.
  - c) On what principle does a pinhole camera works?

**Or**

- a) Give any one way in which water cycle play an important role on earth.
- b) Animal living in soil comes out during heavy rains. Give reason.
- c) How are clouds formed?

23. A plastic cup having a magnet and a pin hanging as shown in figure given below (3)
- a) What are magnets?
  - b) Why does the pin rises up and sticks to the bottom of the plastic cup?
  - c) Mention the property that relate to this activity.



24. a) Give one difference and similarity between vermicomposting and composting. (3)
- b) When carrying out vermicomposting kitchen waste like oil, salt, pickle is avoided in the pit. Give reason.

25. Observe the candles and answer the following questions: (3)
- a) Will the candles continue burning or blew off. Why?
  - b) Which gas is present in the glass even after the candle blew off?
  - c) What do you conclude from this activity?

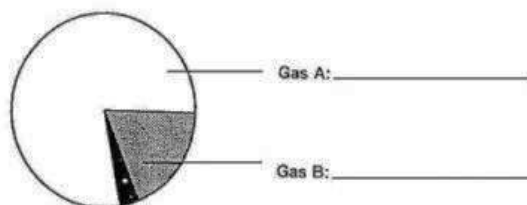


26. a) Write two functions of stem. (3)
- b) Why green plants are called as producers?
  - c) Differentiate between reticulate venation and parallel venation (any one point).

**OR**

The pie chart below shows the composition of different gases in the air.

- i) Identify Gas A and B.
- ii) Name one function of Gas B.
- iii) List two properties of air.



27. List three differences between drought and flood. (3)

### SECTION C

28. a) Anita wants to make her own magnet using iron strip. Suggest the steps involved in it. (5)
- b) A freely suspended magnets always aligned itself along a particular direction. Name the direction.

- c) Mention the use of magnetic compass.
- d) Akshay has horse shoe magnet. Suggest the way to store it.

**Or**

- a) Meena wanted to see a solar eclipse. She was preparing a pinhole camera. Can you suggest the steps involved in making it?
- 29. a) What are conductors and insulators? (5)
- b) An electrician use rubber gloves while repairing electric switch. Why?
- c) Name two electric devices on which switch are built on it.
- d) Electric cell stop producing electric current. Give reason?
- 30. a) What is atmosphere? List two importance of air. (5)
- b) Delhi is facing air pollution to its maximum due to farmers burning dry leaves and crops after harvesting. Can you suggest a useful way that can be helpful to minimize this pollution?
- c) Explain why.
  - i) If the clothes of a person catch fire accidently, he must be covered with a woolen blanket.
  - ii) Mountaineers carry oxygen cylinder while climbing mountains.

**Or**

- a) Explain the term stimuli and give two examples in plants towards stimuli?
- b) Write any one adaptation for the given animals.
  - i) Sea animals like squid and octopus.
  - ii) Lion to catch its prey.
- 31. a) What is rain water harvesting? (5)
- b) Give two technique of rain water harvesting.
- c) Why is there need to conserve water?
- 32. a) If you are given a choice to eat in a banana leaf platter or a plastic plate, which one will you prefer and why? (5)
- b) List two ill effects of using plastic.
- c) What is peppier mache? Give its two uses?
- 33. a) When is the body said to be in motion. Give one example of periodic motion. (5)
- b) Mention any two early units of measurement of distance?
- c) The distance between Ram’s home and his school is 8250 meters. Express this distance in kilometer.
- d) What is meant by SI units? What is the SI unit for measuring length?

**Or**

- a) Define landfill.
- b) What does blue and green bin indicate?
- c) **Segregate** the **waste** according to the blue and green bins given below:  
Orange peel, plastic bottle, vegetable peel, cow dung, newspaper, metal cans.

Bin	Waste
Blue	
Green	

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