

**ATOMIC ENERGY CENTRAL SCHOOL, INDORE**  
**Annual Examination 2020-21**

**Class: VI**  
**Subject: SCIENCE**

**Time: 2 Hours 15 Minutes**  
**Marks: 70**

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**General Instructions:**

1. This question paper consists of four sections A, B, C and D.
  2. Section A has 25 questions and each carries 1 mark.
  3. Section B has 6 questions and each carries 2 marks.
  4. Section C has 6 questions and each carries 3 marks.
  5. Section D has 3 questions and each carries 5 marks.
  6. Draw a neat and well labelled diagram wherever necessary.
  7. All the questions in this question paper are compulsory.
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**SECTION A**

**I. Choose the correct answer in the following questions :- (1 Marks × 25 = 25 Marks)**

1. What are the characteristics of a desert plant?  
(a) No leaves or very small leaves  
(b) Spines  
(c) Deep roots  
(d) All of these
2. Which is an example of an animal found in mountain region?  
(a) Leopard  
(b) Yak  
(c) Mountain goat  
(d) All of these
3. Which is not an abiotic component of environment?  
(a) Soil  
(b) Bacteria  
(c) Water  
(d) Air
4. What is the SI unit of length?  
(a) Metre  
(b) Centimetre  
(c) Kilometre  
(d) All of these

5. 4 kilometres are equal to

- (a) 4,00,000 metre
- (b) 40,000 metre
- (c) 4,000 metre
- (d) 400 metre

6. Which is a correct relationship?

- (a)  $1 \text{ m} = 100 \text{ cm}$
- (b)  $1 \text{ cm} = 100 \text{ mm}$
- (c)  $1 \text{ km} = 100 \text{ m}$
- (d) all of these

7. What is lateral inversion?

- (a) Image looks shorter in size
- (b) Image looks larger in size
- (c) The right side of the object appears to be the left side of its image and vice-versa
- (d) None of the above

8. When an opaque object comes in the path of light it forms

- (a) an image with colours
- (b) shadow
- (c) black and white image
- (d) depends on the colour of the light

9. Cell is a device which

- (a) converts chemical energy into electrical energy
- (b) electrical energy into light energy
- (c) electrical energy into magnetic energy
- (d) None of these

10. Filament of a bulb is made up of

- (a) aluminium
- (b) chromium
- (c) platinum
- (d) tungsten

11. To prevent electric shocks, the metallic electrical wires are covered with

- (a) paper
- (b) cotton
- (c) aluminium
- (d) plastic

12. Magnets have a shape

- (a) cylindrical
- (b) ball ended
- (c) horse shoe
- (d) all of these

13. The magnetic properties of a magnet cannot be destroyed by

- (a) hammering
- (b) heating
- (c) dropping on a hard surface
- (d) boiling

14. When a bar magnet is brought near iron dust, most of the dust sticks
- (a) near the middle
  - (b) equally everywhere
  - (c) near two ends
  - (d) at the middle and ends
15. Potable water is
- (a) ocean water
  - (b) groundwater at selected places
  - (c) river water
  - (d) ponds water
16. Which one is the purest form of water?
- (a) River water
  - (b) Groundwater
  - (c) Rainwater
  - (d) Ocean water
17. Plants release large amount of water vapour into the atmosphere by the process called
- (a) evaporation
  - (b) condensation
  - (c) precipitation
  - (d) transpiration
18. Major part of the air is constituted by
- (a) nitrogen
  - (b) oxygen
  - (c) carbon dioxide
  - (d) inert gases
19. Which is not a property of air?
- (a) It occupies space.
  - (b) It is transparent,
  - (c) It is a solution.
  - (d) It is a compound.
20. Which of the following gas helps in burning? ,
- (a) Nitrogen
  - (b) Oxygen
  - (c) Carbon dioxide
  - (d) Carbon monoxide
21. Mountaineers carry oxygen cylinders with them because
- (a) oxygen supports combustion.
  - (b) oxygen is less at higher altitudes.
  - (c) more oxygen is needed to cook food.
  - (d) oxygen does not support combustion.
22. How is garbage handled at the landfill site?
- (a) It is spread as such over the landfill site
  - (b) It is separated into useful and non-useful components and then spread over the landfill site
  - (c) Both the above are correct
  - (d) None of the above is correct

23. The red worms used in vermicomposting need food like
- (a) Dead worms
  - (b) Plastic bags
  - (c) Broken toys
  - (d) Vegetable and fruit wastes
24. Why do we develop composting areas near the landfill?
- (a) To make the look of landfill beautiful.
  - (b) It is compulsory to develop such sites.
  - (c) To utilize some useful components of the garbage.
  - (d) None of these is correct explanation.
25. A paste made of clay and paper which is used for recycling of paper is called
- (a) paper-mache
  - (b) clay
  - (c) paper
  - (d) None of these

### **SECTION B**

**II. Answer the following questions in one or two sentences :- (2 Marks × 6 = 12 Marks)**

26. What do you mean by acclimatisation?
27. State two precautions to be observed while measuring length with the help of a metre scale.
28. What are the essential conditions for the formation of shadow?
29. How can an electric bulb get fused?
30. What precautions must be taken to store magnets?
31. Define the following :-
- (a) Landfill
  - (b) Composting.

### **SECTION C**

**III. Answer the following questions in one or two sentences :- (3 Marks × 6 = 18 Marks)**

32. What kind of movements is observed in plants?
33. Give two examples for each of the following motions:
- (a) Linear motion
  - (b) Periodic motion
  - (c) Random motion.
34. What are the different types of object based on their ability to pass the light? Give suitable examples of each object.
35. What is a circuit? Name its different components and draw a labelled diagram of a circuit.
36. What are the advantages of rainwater harvesting?
37. How do plants and animals help each other in the exchange of gases in the atmosphere?

### **SECTION D**

**IV. Answer the following questions in five to six sentences :- (5 Marks × 3 = 15 Marks)**

38. Explain the adaptation of fishes to live in water.
39. What is torch? Give its various parts and explain its working. Also give its labelled diagram.
40. Briefly explain water cycle with a well labelled diagram. Also state the importance of water cycle.