

# Maharashtra State Board

## Class VII Science

### Board Paper – 1

**Time: 2 hrs**

**Total Marks: 60**

#### **General Instructions:**

1. All questions are compulsory.
2. The marks related to the question are given in brackets.

#### **I. Choose the correct alternative:**

**[15]**

1. How many atoms are present in hydrogen peroxide?  
(a) H: 2, O: 2  
(b) C: 2, O: 2  
(c) H: 3, P: 2  
(d) H: 2, P: 3
2. Which of the following resources cannot be recovered once exhausted?  
(a) Sunlight  
(b) Wind  
(c) Minerals  
(d) Plants
3. Which property of light is used in making a pinhole camera?  
(a) Reflection  
(b) Refraction  
(c) Dispersion  
(d) Linear propagation
4. A substance which dissolves in a liquid is called a  
(a) Solvent  
(b) Solute  
(c) Solution  
(d) None of the above
5. Which level of organisation does the stomach belong to?  
(a) Cell level  
(b) Tissue level  
(c) Organ level  
(d) System level

- 6.** Reproduction by buds present on the leaf occurs in  
(a) Yeast  
(b) *Bryophyllum*  
(c) *Amoeba*  
(d) *Hydra*
- 7.** The \_\_\_\_\_ present in fibrous foods cannot be digested by the human body.  
(a) Starch  
(b) Glucose  
(c) Cellulose  
(d) Peptide
- 8.** Which of the following is a good conductor of heat but a bad conductor of electricity?  
(a) Copper  
(b) Iron  
(c) Steel  
(d) Mica
- 9.** Salt solution in the soil enters the roots of plants by  
(a) Osmosis  
(b) Diffusion  
(c) Gaseous exchange  
(d) None of the above
- 10.** Which of the following can be preserved by sundrying?  
(a) Jams  
(b) Potatoes  
(c) Grains  
(d) Pickles
- 11.** Which of the following statements is incorrect?  
(a) Overuse of intoxicating substances can be fatal.  
(b) Deficiency of iron causes anaemia.  
(c) Salivary glands in the neck secrete thyroxine hormone.  
(d) Deficiency of vitamin C causes scurvy.
- 12.** What is the role of potassium hydroxide in the experiments carried out during photosynthesis?  
(a) It absorbs carbon dioxide.  
(b) It absorbs oxygen.  
(c) It obstructs sunlight.  
(d) It reacts with chlorophyll.

13. Who discovered the electrostatic effect?

- (a) Newton
- (b) Thales
- (c) Pasteur
- (d) Galileo

14. The velocity of light is \_\_\_\_\_ times greater than the velocity of sound.

- (a)  $10^5$
- (b)  $10^6$
- (c)  $10^7$
- (d)  $10^8$

15. Which of the following actions will help us save resources?

- (a) Reduce the use of fuels
- (b) Use alternative sources of energy
- (c) Use public transport
- (d) All of the above

**II. Answer the following:**

**[10]**

16. Name the following:

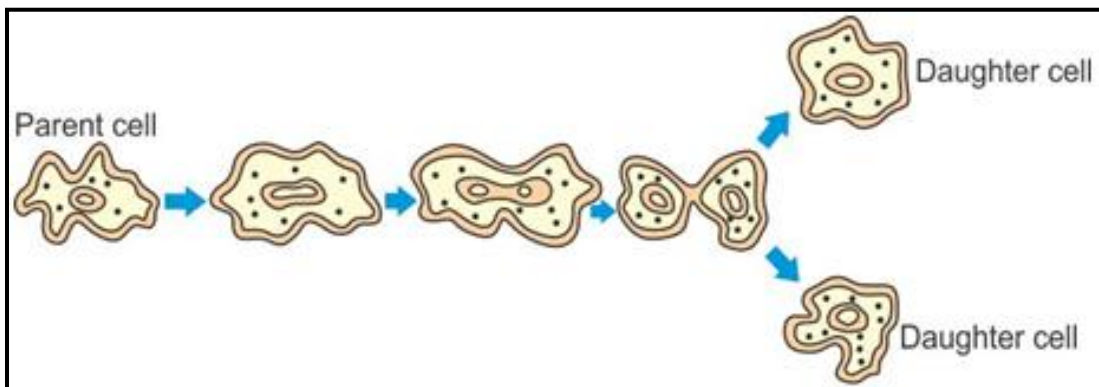
- (a) A base which is insoluble in water
- (b) An acid used for cleaning toilets

17. Draw a neat labelled diagram of a reflex arc.

18. State whether the following statements are true or false:

- (a) When two substances are rubbed against each other, like charges are developed on each.
- (b) An ebonite rod rubbed on woollen cloth develops a negative charge.

19. Which method of reproduction is shown in the figure given below? Give two examples of organisms which reproduce by this method.



20. State the differences between land breeze and sea breeze.

**III. Answer the following:**

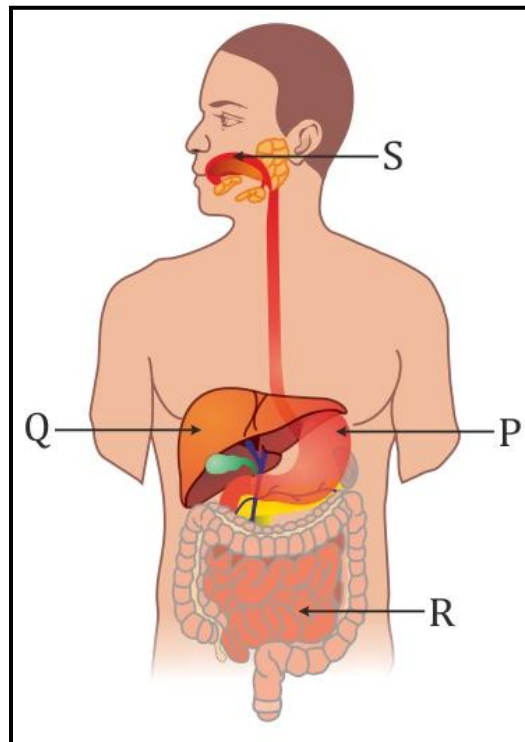
[15]

21. Why does ice float on water?
22. Find the odd one out:  
(a) Rice, Wheat, Jowar, Gram  
(b) Banana, Amla, Orange, Lemon  
(c) Cellulose, Glucose, Fructose, Lactose
23. Why is it necessary to include fibrous foods in our diet?
24. Justify: Repulsion is the real test of electric charge.
25.  
(a) How is sound produced from a flute?  
(b) What is sonography?

**IV. Answer the following in brief:**

[20]

26. Add the missing labels in the given diagram of the human digestive system.



27.  
(a) Why are endocrine glands called ductless glands?  
(b) List any two endocrine glands along with their functions.
28. How does reproduction occur in higher animals?
29.  
(a) Why are animal species on the verge of extinction?  
(b) List any two ways to control air pollution.
30. How do thermoware containers keep food hot?