

Maharashtra State Board

Class VII Science

Sample Paper – 3

Time: 2 hrs

Total Marks: 60

General Instructions:

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

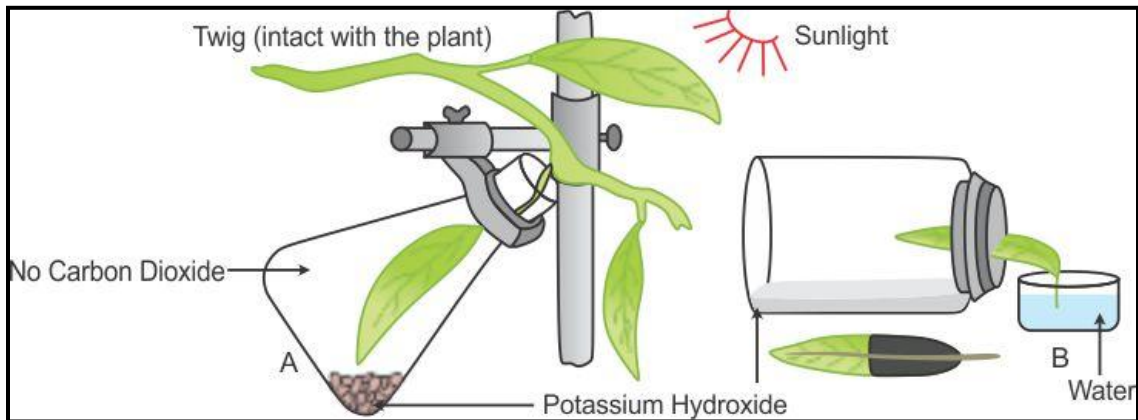
I. Choose the correct alternative:

[15]

1. Which of the following is the molecular formula of potassium permanganate?
(a) KOH
(b) NH_4Cl
(c) KMnO_4
(d) FeCl_2
2. _____, Israel's only river, flows towards the South into the _____ Sea.
(a) Jordan, Dead
(b) Yarkon, Arabian
(c) Jordan, Arabian
(d) Yarkon, Dead
3. The _____ eclipse takes place only on a _____ Moon day.
(a) Solar, Full
(b) Solar, New
(c) Lunar, New
(d) None of the above
4. Which of the following statements is not true with respect to water?
(a) It is a universal solvent.
(b) It is an ideal medium for most chemicals.
(c) Water is ice at normal temperature.
(d) The density of water is 1 g/cc.
5. Which of the following is the correct order of levels of organisation in living things?
(a) Cell level → Organ level → Tissue level → System level
(b) Cell level → Tissue level → System level → Organ level
(c) Organ level → Cell level → Tissue level → System level
(d) Cell level → Tissue level → Organ level → System level

- 6.** Which one of the following reproduces by segmentation?
(a) *Amoeba*
(b) *Spirogyra*
(c) *Hydra*
(d) *Paramecium*
- 7.** Catechu is obtained from the _____ tree.
(a) Neem
(b) Babool
(c) Khair
(d) Jamun
- 8.** Which of the following is a good conductor of heat?
(a) Copper
(b) Sulphur
(c) Carbon
(d) Phosphorus
- 9.** What role does insulin play in the human body?
(a) Digestion of carbohydrates
(b) Regulation of sugar level
(c) Digestion proteins and fats
(d) Making food acidic
- 10.** Deficiency of iodine causes
(a) Rickets
(b) Scurvy
(c) Anaemia
(d) Goitre
- 11.** Which of the following is an endocrine gland?
(a) Pituitary gland
(b) Thyroid gland
(c) Adrenal gland
(d) All of the above

12. What can you conclude from the given experiment?



- (a) Light is necessary for photosynthesis.
- (b) Chlorophyll is necessary for photosynthesis.
- (c) Carbon dioxide is necessary for photosynthesis.
- (d) Light, chlorophyll and carbon dioxide are necessary for photosynthesis.

13. The unit of frequency is

- (a) Ampere
- (b) Pascal
- (c) Hertz
- (d) Newton

14. _____ is a simple device used to identify electric charge.

- (a) Electromagnet
- (b) Periscope
- (c) Microscope
- (d) Electroscope

15. _____ is observed as World Water Day.

- (a) 22nd March
- (b) 25th March
- (c) 23rd March
- (d) 24th March

II. Answer the following:

[10]

16. Give two examples of each:

- (a) Indicators
- (b) Basic salts

17. Why is static electricity also called friction electricity?

18. List the measures for protecting soil.

19. Draw a neat and labelled diagram of reproduction in *Amoeba*.

20. Define:

- (a) Heat capacity
- (b) Kilocalorie

III. Answer the following:

[15]

- 21. What is Plimsoll line?
- 22. What are the ill-effects of smoking?
- 23. Write a short note on blood bank.
- 24. How do we measure the temperature of a furnace?
- 25. Distinguish between music and noise.

IV. Answer the following in brief:

[20]

26. Given below are some alloys. Write the constituents of each of these alloys.

	Alloys	Constituents
(a)	Steel	
(b)	Brass	
(c)	Nichrome	
(d)	Duralumin	

27. Write two functions of each:

- (a) Proteins
- (b) Fats

- 28. Why do doctors prescribe medicines containing magnesium hydroxide for severe stomach ache?
- 29. List some ways to reduce the evaporation of water.
- 30. Describe the construction of a thermometer.