

SECOND TERM EXAMINATION - 2024  
SUMMATIVE ASSESSMENT - SCIENCE

B

CLASS : 7

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Marks : 60

Time : 2.00 Hrs.

I. Choose the correct answer.

(8x1=8)

- The readings between the initial value and the final value of the Fahrenheit thermometer is \_\_\_\_\_.
  - 100
  - 180
  - 110
  - 115
- In geyser, the heating element is made up of materials with \_\_\_\_\_.
  - low melting point
  - high melting point
  - low boiling point
  - high freezing point
- \_\_\_\_\_ are endothermic changes.
  - Condensation and melting
  - Condensation and freezing
  - Evaporation and melting
  - Evaporation and freezing
- I am the outer most layer of an animal cell. Who am I?
  - Cell wall
  - Nucleus
  - Cell membrane
  - Nuclear membrane
- A plant cell more rigid than an animal cell due to the presence of \_\_\_\_\_.
  - mitochondria
  - lysosome
  - cell wall
  - chloroplast
- The binomial name of pigeon is \_\_\_\_\_.
  - Homo sapiens*
  - Rattus rattus*
  - Mangifera indica*
  - Columbo livia*

7. Who proposed the five kingdoms classification?

- a) Aristotle  
 b) Linnaeus  
 c) Whittakar  
 d) Plato

8. 'Tux paint' software is used to \_\_\_\_\_.

- a) paint  
 b) program  
 c) scan  
 d) PDF

**II. Fill in the blanks.**

(5x1=5)

9.  $-7^{\circ}\text{C}$  temperature is \_\_\_\_\_ than  $0^{\circ}\text{C}$  temperature.

10. One unit of coulomb is charge of approximately \_\_\_\_\_ protons or electrons.

11. Stretching gold coin into a ring is a \_\_\_\_\_ change.

12. Mature red blood cell does not contain a \_\_\_\_\_.

13. Amoeba belongs to \_\_\_\_\_ phylum.

**III Say true or false. If false write the correct answer.**

(5x1=5)

14. The temperature in celsius and fahrenheit will be same at 40.

15. In a parallel circuit, the electric components are divided into branches.

16. Taking a glass of water and freezing it by placing it in the freezer is a chemical change.

17. Skeleton is formed of spicules.

18. True nucleus is seen in prokaryotic cells.

**IV. Match the following.**

(5x1=5)

19. Thermometer - a) Insulator

20. Glass - b) Electromagnetic effect

21. Telephone - c) Alcohol

22. Power house - d) Butterfly

23. Animalia - e) Mitochondria

**V. Complete the analogy.****(3x1=3)**

24. Forest fire : \_\_\_\_\_ change :: Change of period in a school : Periodic change.
25. Length: Metre scale :: Current: \_\_\_\_\_
26. Adipose : Tissue :: Eye: \_\_\_\_\_

**VI. Answer shortly. (Any seven only)****(7x2=14)**

27. Why do we jerk a clinical thermometer before we measure the body temperature?
28. What is a battery?
29. Miniature circuit breaker have been replacing electric fuse from wirings. – Why?
30. What is sublimation? Give two examples.
31. Write correct sequence from cell to an organism.
32. Write a short note on nucleus.
33. List out the five kingdoms classification.
34. What is binomial nomenclature?
35. Write the keyboard shortcut keys for the following tool names.
- a) Save                      b) Print                      c) Redo                      d) Open

**VII. Answer in detail ( Any four only)****(4x5=20)**

36. Draw the diagram of a clinical thermometer and label its parts.
37. a) Define Electrical resistivity.
- b) Arrange the following metals in the increasing order of their resistivity.
- (i) Annealed copper (ii) Silver (iii) Aluminum (iv) Copper
- c) Write the SI unit of electrical conductivity.
38. Boiling of water is a physical change, but boiling of egg is a chemical change. Why?

39. Differentiate the plant cell and the animal cell.
40. Write the functions of the following cell organelles.
- a) Endoplasmic reticulum
  - b) Nucleus
  - c) Centriole
41. Write two examples for each of the following Phyla.
- a) Echinodermata
  - b) Coelenterata
  - c) Porifera
  - d) Arthropoda
  - e) Mollusca