

9Register No: **QUARTERLY EXAMINATION - 2024**

Time : 2.30 Hours

SCIENCE

Marks : 75

PART - I**I. Choose the correct Answer** **12x1=12**

1. Which among the following is not a device to measure mass?
a) Spring balance b) Beam balance
c) Physical balance d) Digital balance
2. The area under velocity time graph represents the
a) Velocity of the moving object
b) Displacement covered by moving object
c) Speed of the moving object
d) Acceleration of the moving object
3. Clouds float in atmosphere because of their low
a) Density b) Pressure c) Velocity d) Mass
4. Among the following is a mixture
a) Common Salt b) Juice c) Carbon Di Oxide d) Pure Silver
5. The correct electronics configuration of Potassium is
a) 2,8,9 b) 2,8,1 c) 2,8,8,1 d) 2,8,8,3
6. Elements in the modern periodic table are arranged in groups and periods
a) 7,18 b) 18,7 c) 17,8 d) 8,17
7. Mesoglea is present in
a) Porifera b) Coelenterata c) Annelida d) Arthropoda
8. is the example of Jawless vertebrates
a) Ascidian b) Amphioxus c) Lamprey d) Skates
9. The tissue composed of living thin walled polyhedral cell is
a) Parenchyma b) Collenchyma
c) Sclerenchyma d) None of the above
10. Companion cells are closely associated with
a) Sieve elements b) Vessel element
c) Trichomes d) Guard cells
11. Chlorophyll in a leaf is required for
a) Photosynthesis b) Tropic Movement
c) Transpiration d) Nastics Movement
12. Which key should be pressed to run a slide show?
a) F1 b) Tab c) F5 d) F12

PART - II**II. Answer any 7 Questions. Question No.22 is Compulsory****7x2=14**

13. Define least count
14. Compare speed and Velocity

15. a) The instrument used to measure atmospheric pressure is
- b) A drinking straw works on the existence of
16. State Pascal's law
17. a) Noble gases belong to group of the periodic table
- b) Example for liquid metal is
18. State modern periodic law
19. List the respiratory organs of Amphibians
20. $6\text{CO}_2 + \dots \xrightarrow[\text{Chlorophyll}]{\text{Sunlight}} \dots + 6\text{O}_2 \uparrow$
21. Write the steps to view a slide show.
22. Draw the structure of Neuron and label the parts.

PART - III

III. Answer any 7 Questions. Q. No.32 is Compulsory 7x4=28

23. Differentiate mass and weight
24. Explain different types of motion.
25. a) Why does a helium balloon float in air?
- b) State law of Floatation
26. Write the difference between elements and compounds give and example for each.
27. Calculate the number of Proton, Electron and Neutron
 - a) Atomic Number 3 mass number 7
 - b) Atomic Number 92 and mass number 238
28. List any five characteristic feature of fishes
29. Write about types of meristem based on its position.
30. a) What are nucleons?
- b) Write the electronic configuration of K and Cl
31. State the features of modern periodic table
32. Density of mercury is 13600 kgm^{-3} calculate the relative density

PART - IV

IV. Answer all the Questions 3x7=21

33. a. Write the rules that are followed in writing symbols of units in SI system, b. Metre is a unit of, c. Thickness of Cricket ball is measured by (OR)
Explain the construction and working a hydrometer with diagram
34. Explain Tyndall effect and Brownian movement with suitable diagram (OR)
 - a. How are homogenous solution differ from heterogenous solution. Give Exmple
 - b. Define sublimation with example
35. List out difference between mitosis and meiosis (OR)
 - a. Define transpiration
 - b. Differentiate between tropic and nastic movement