

# QUARTERLY EXAMINATION - 2023

**CLASS:IX**

**Time : 3.00 Hours**

**SCIENCE**

Reg.No

**MAX MARKS : 75**

**I. Choose the correct answer.**

**12X1=12**

1. SI unit of length is  
a) metre                      b) centimetre                      c) kilometre                      d) decimetre
2. The centrifugal force is  
a) a real force.                      b) the force of reaction of centripetal force.  
c) a virtual force.                      d) directed towards the centre of the circular path.
3. Clouds float in atmosphere because of their low  
a) density                      b) pressure                      c) velocity                      d) mass
4. \_\_\_\_\_ has the same properties throughout the sample  
a) Pure substance                      b) Mixture                      c) Colloid                      d) Suspension
5. which of the is a Heterogeneous Mixture  
a) True solution                      b) alloys                      c) compounds                      d) colloids
6. The correct electronic configuration of potassium is  
a) 2,8,9                      b) 2,8,1                      c) 2,8,8,1                      d) 2,8,8,3
7. Elements in the modern periodic table are arranged in groups and periods.  
a) 7, 18                      b) 18, 7                      c) 17, 8                      d) 8, 17
8. Water vascular system is found in  
a) Hydra                      b) Earthworm                      c) Star fish                      d) Ascaris
9. The animal without skull is  
a) Acrania                      b) Acephalia                      c) Apteria                      d) Acoelomate
10. Aerenchyma is found in  
a) epiphytes                      b) hydrophytes                      c) halophytes                      d) xerophytes
11. Chlorophyll in a leaf is required for \_\_\_\_\_.  
a) photosynthesis                      b) tropic movement                      c) transpiration                      d) nastic movement
12. Transpiration takes place through \_\_\_\_\_.  
a) fruit                      b) seed                      c) flower                      d) stomata

**Answer any seven of the following questions  
(Question No.22 is compulsory)**

**7X2=14**

13. What is the full form of SI system?
14. Compare speed and velocity.
15. State Pascal's law.

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16. Match the following.

Element	-	Settle down on standing
Compound	-	Impure Substance
Colloid	-	Made up of molecules
Suspension	-	Pure substance
Mixture	-	Made up of atoms

17. Draw the structure of oxygen atom.

18. State modern periodic law.

19. Define taxonomy.

20. Why are frogs said to be amphibians?

21. Mention the elements of xylem.

22. Find the mass of an object weighing 98 N.

23. Draw a neat labelled diagram of stomata.

**Answer any seven of the following questions(Question No.28 is compulsory) 7X4=28**

24. Differentiate mass and weight.

25. State the laws of flotation.

26. How are homogenous solutions different from heterogeneous solution? Explain with examples.

27. State any four features of modern periodic table.

28. Calculate the number of neutrons, protons and electrons: (i) atomic number 3 and mass number 7 (ii) atomic number 92 and mass number 238.

29. Differentiate between flat worms and round worms?

30. What is complex tissue? Name the various kinds of complex tissues.

31. Define transpiration. Mention its types.

32. Differentiate between tropic and nastic movements

**Answer in detail.**

**3x7=21**

16. Derive the equations of motion by graphical method.

(or)

Explain the construction and working of a hydrometer with diagram.

17. Write the differences between elements and compounds and give an example for each.

(or)

Explain the postulates of Bohr's atomic model.

18. List out the differences between mitosis and meiosis.

(or)

Describe the characteristic features of mammals and birds.