

COMMON QUARTERLY EXAMINATION - 2024						Reg. No.					
IX - SCIENCE											
Time Allowed : 2.30 Hrs.						Maximum Marks: 75					

Part - I

I. Choose the correct answer:

12 x 1 = 12

1. Choose the correct one.
 - a) mm < cm < m < km
 - b) mm > cm > m > km
 - c) km < m < cm < mm
 - d) mm > m > cm > km
2. 1 metric ton is equal to
 - a) 100 quintals
 - b) 10 quintals
 - c) $\frac{1}{10}$ quintals
 - d) $\frac{1}{100}$ quintals
3. 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
4. Clouds float in atmosphere because of their low
 - a) density
 - b) pressure
 - c) velocity
 - d) mass
5. _____ has the same properties throughout the sample.
 - a) pure substance
 - b) mixture
 - c) colloid
 - d) suspension
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. Identify the animal having chambered heart
 - a) lizard
 - b) snake
 - c) crocodile
 - d) calotes
9. Excretory organ of tapeworm is
 - a) flame cells
 - b) nephridia
 - c) body surface
 - d) solenocytes
10. The fibres consists of
 - a) parenchyma
 - b) sclerenchyma
 - c) collenchyma
 - d) none of above
11. The bonding of root of a plant in response to water is called _____.
 - a) thigmonasty
 - b) phototropism
 - c) hydrotropism
 - d) photonasty
12. Chlorophyll in a leaf is required for _____.
 - a) photosynthesis
 - b) tropic movement
 - c) transpiration
 - d) nastic movement

Part - II

II. Answer any 7 questions. (Q.No.22 is compulsory)

7 x 2 = 14

13. Define measurement.
14. Distinguish distance and displacement.
15. A few drops of detol when added to water the mixture turns turbid. Why?
16. How was it shown that atom has empty space?
17. State modern periodic law.
18. **Match the following.**

A) Coelenterata	-	Snail
B) Platyhelminthes	-	Star fish
C) Echinodermata	-	Tapeworm ✓
D) Mollusca	-	Hydra
19. Why are frogs said to amphibians?
20. What is complex tissue? Name the various kinds of complex tissues.
21. Define transpiration.
22. If a man has a mass of 50 kg on the earth, then what is his weight?

Part - III

III. Answer any 7 questions. (Q.No.32 is compulsory)

7 x 4 = 28

23. Differentiate mass and weight.
24. What is meant by uniform circular motion? Give two examples of uniform circular motion.
25. a) Why it is easier to swim in seawater than in river water.
b) State Pascal's law.
26. Which of the following are pure substances?
ice, milk, iron, hydrochloric acid, mercury, brick and water
27. State any five features of modern periodic table.
28. Give an account on Phylum Annelida.
29. What are Intercalary meristems? How do they differ from other meristems.
30. a) $6\text{CO}_2 + \text{_____} \xrightarrow[\text{Chlorophyll}]{\text{Sunlight}} \text{_____} + 6\text{H}_2\text{O} + 6\text{O}_2\uparrow$
b) What is chlorophyll?
31. Differentiate between tropic and nastic movements.
32. Draw the structure of oxygen and sulphur.

Part - IV

IV. Answer all the questions.

3 x 7 = 21

Draw diagram wherever necessary.

33. a) How will you find the thickness of a one rupee coin? (OR)
b) Explain different types of motion.
34. a) Write the differences between elements and compounds and give an example for each. (OR)
b) What are Groups and Periods in the modern periodic table?
35. a) Give an account on phylum Anthropoda. (OR)
b) How will you differentiate the different types of transpiration?