

FM

FIRST MID TERM TEST - 2023

9.- STD

SCIENCE

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Time : 1.30 Hrs

Marks : 50

8 X 1 = 8

I Choose the correct answer.

- 1 metric ton is equal to
a) 100 quintals b) 10 quintals c) 1/10 quintals d) 1/100 quintals
- 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
- In petroleum refining, the method of separation used is
a) sublimation b) separating funnel c) simple distillation d) fractional distillation
- 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
- Identify the animal having four chambered heart
a) Lizard b) Snake c) Crocodile d) Calotes
- State bird of Tamil Nadu is
a) Peacock b) Emerald dove c) Parrot d) Crow
- Which of the following is a complex tissue?
a) Parenchyma b) Collenchyma c) Xylem d) Sclerenchyma
- Smooth muscles occur in
a) Uterus b) Artery c) Vein d) All the above

II Answer any six from the following. Question number 16 is compulsory.

9. Define least count of any device. 6 X 2 = 12
10. Compare speed and velocity.
11. Define sublimation.
12. Draw the structure of Oxygen.
13. Define taxonomy.
14. What is nematocysts?
15. State whether true or false. If false, correct the statement.
a) Parenchyma is a simple tissue. b) Phloem is made up of tracheids.
16. Calculate the correct reading, if the main scale reading is 8cm, Vernier coincidence is 4 and positive zero error is 0.05cm.

III Answer any four from the following.**Question Number 22 is compulsory.**

17. Differentiate mass and weight. 4 X 4 = 16
18. Explain different types of motion.
19. Explain Tyndall effect and Brownian movement with suitable diagram.
20. List five characteristic features of fishes.
21. List out the differences between mitosis and meiosis.
22. Find the atomic number, mass number, number of protons, neutrons and electrons for the following element. a) ${}_Z A^X$ b) ${}_Z B^{16}$

IV Answer the following questions in detail.

2 X 7 = 14

23. a) How will you find the thickness of a one rupee coin? (OR)
a) Write the differences between elements and compounds and give an example for each. b) How are homogenous solutions different from heterogeneous solution?
24. Give an account of Phylum Arthropoda. (OR)
What are permanent tissues? Describe the different types of simple permanent tissues.

(CD) FM 8 - அறிவியல் (EM) ஒரு பக்கம்