

FML

## FIRST MID TERM TEST - 2024

9 - STD

SCIENCE

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Time : 1.30 Hrs

Marks : 50

Answer all the following questions.

7 X 1 = 7

**I. Choose the correct answer.**

- Rulers, measuring tapes and metre scales are used to measure.  
a) mass      b) weight      c) time      d) length
- 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
- When we mix a drop of ink in water we get a .....  
a) heterogeneous mixture      b) compound  
c) homogeneous mixture      d) suspension
- 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
- The animal without skull is .....  
a) Acrania      b) Acephalia      c) Apterina      d) Acoelomate
- Air sacs and pneumatic bones are seen in .....  
a) fish      b) frog      c) bird      d) bat
- Aerenchyma is found in .....  
a) epiphytes      b) hydrophytes      c) halophytes      d) xerophytes

**II Answer any five questions only. Question No. 14 is compulsory.**

- What is the full form of SI system? 5 x 2 = 10
- What is meant by uniform circular motion? Give two examples of uniform circular motion?
- Define sublimation.
- How does locomotion takes place in starfish?

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12. In which stage of mitosis the chromosomes align in an equatorial plate. How?
13. Why are frogs said to be amphibians?
14. Find the mass of an object weighing 98N.

**III Answer any three questions only. Question No. 20 is compulsory.**

15. Differentiate mass and weight. 3 X 4 = 12
16. a) Define velocity.  
b) What do you understand by uniform motion.
17. Name the components in each of the following mixtures.  
i) Ice cream ii) Lemonade iii) Air d) Soil
18. Draw the structure of Oxygen and Sulphur atoms.
19. List the characteristics features of fishes.
20. Calculate the number of neutrons, protons and electrons.  
i) Atomic number 3 and mass number 7.  
ii) Atomic number 92 and mass number 238

**IV Answer all the questions.**

3 X 7 = 21

21. Explain a method to find the thickness of a hollow tea cup. **(OR)**  
Explain different types of motion.
22. Explain the postulates of Bohr's atomic model. **(OR)**  
a) How is a mixture of common salt, oil and water separated you can use a combination of different methods.  
b) How will you separate a mixture containing saw dust naphthalene and iron fillings?
23. a) Differentiate between flat worms and round worms.  
b) What is nematocyst? **(OR)**  
What are permanent tissues? Describe the different types of simple permanent tissues.