

FIRST MID TERM TEST - 2024

TFM

9- Std

SCIENCE

11 11 24

MARKS : 50

Time : 1.30 Hrs.

10 x 1 = 10

- I. (i) Choose the correct answer.
(ii) answer all the question

1. Metric ton is equal to
 - a) 100 quintals
 - b) 10 quintals
 - c) 1/10 quintals
 - d) 1/100 quintals
2. Which among the following is not a device to measure mass ?
 - a) Spring balance
 - b) Beam balance
 - c) Physical balance
 - d) Digital balance
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. Velocity is a _____
 - a) scalar
 - b) vector
 - c) constant
 - d) none of these
5. _____ is essential to perform separation by solvent extraction method.
 - a) Separating funnel
 - b) filter paper
 - c) centrifuge machine
 - d) sieve
6. Among the following _____ is a mixture.
 - a) Common salt
 - b) Juice
 - c) Carbon dioxide
 - d) Pure silver
7. Change in the number of neutrons in an atom changes it to
 - a) an ion
 - b) an isotope
 - c) an isobar
 - d) another element
8. No of protons, Neutrons and Electrons in ${}_{35}^{80}\text{Br}$
 - a) 80, 80, 35
 - b) 35, 55, 80
 - c) 35, 35, 80
 - d) 35, 45, 35
9. Identify the animal having four chambered heart.
 - a) Lizard
 - b) Snake
 - c) Crocodile
 - d) Calottes
10. Which of the following is a complex tissue?
 - a) Parenchyma
 - b) Collenchyma
 - c) Xylem
 - d) Sclerenchyma

- II. Answer any 5 questions.

5 x 2 = 10

Question number 18 is compulsory

11. Define: Measurement.
12. Define: Velocity

13. How will you separate a mixture containing saw dust, naphthalene and iron fillings?
14. For an atom 'X', K, L and M shells are completely filled. How many electrons will be present in it?
15. Why are coelenterates called diploblastic animals?
16. In which stage of mitosis the chromosomes align in an equatorial plate? How?
17. What is complex tissue? Name the various kinds of complex tissues.
18. A racing car has uniform acceleration of 4 ms^{-2} . What distance does it cover in 10 seconds after the start?

III. Answer any 4 questions.

4 x 4 = 16

Question number 24 is compulsory.

19. Differentiate: Mass and Weight
20. a) Is the uniform circular motion accelerated? Give reasons for your answer.
b) What is meant by uniform circular motion? Give two examples of uniform circular motion.
21. Name the components in each of the following mixtures
 - (i) Ice cream
 - (ii) Lemonade
 - (iii) Air
 - (iv) Soil
22. Give an account on phylum Annelida
23. Draw the structure of Oxygen and Sulphur atoms
24. List out the differences between mitosis and meiosis

2 x 7 = 14

IV. Answer all the questions.

25. a) Write the rules that are followed in writing the symbols of units in the SI system
b) The main scale reading while measuring the thickness of a rubber ball using Vernier calliper is 7 cm and the Vernier scale coincidence is 6. Find the radius of the ball. **(OR)**
Explain the postulates of Bohr's atom model
26. Describe the characteristics features of different prochordates. **(OR)**
What are the permanent tissues? Describe the different types of simple permanent tissues