

STD - 9

FIRST MID TERM TEST - 2023
SCIENCE

Time : 1.30 Hours]

[Marks : 50

PART - A

I. Choose the correct answer.

8x1=8

1. 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
2. When we mix a drop of ink in water, we get a -----
 (a) Heterogeneous mixture (b) Compound
 (c) Homogeneous mixture (d) Suspension
3. Which among the following is not a device to measure mass?
 (a) Spring balance (b) Beam balance
 (c) Physical balance (d) Digital balance
4. The number of Protons, neutrons and electrons present respectively in ^{80}Br are
 (a) 80, 80, 35 (b) 35, 55, 80 (c) 35, 35, 80 (d) 35, 45, 35
5. Mesoglea is present in
 (a) Porifera (b) Coelenterata (c) Annelida (d) Arthropoda
6. Which of the following is a complex tissue?
 (a) Parenchyma (b) Collenchyma (c) Xylem (d) Sclerenchyma
7. Smooth muscles occur in
 (a) Uterus (b) artery (c) Vein (d) All of the above
8. Poikilothermic organisms are
 (a) Fish, Frog, Lizard, Man (b) Fish, Frog, Lizard, Cow
 (c) Fish, Frog, Lizard, Snake (d) Fish, Frog, Lizard, Crow

PART - B

II Answer the following (any 6). Q.No.15 is compulsory.

6x2=12

9. Define Sublimation.
10. Define - Light Year.
11. What do you understand about negative acceleration?
12. Fill ups:
 a) ----- isotope is used in the nuclear reactors. Uranium-235
 b) The Valency of Argon is -----
13. Match it:
 a) Coelenterata - Snail
 b) Platyhelminthes - Star fish
 c) Echinodermata - Tapeworm
 d) Mollusca - Hydra
14. What is Nematocyst?
15. Find the mass of an Object weighing 98 N. 9.8
16. What is Complex tissue? Name the various Kinds of complex tissues.

PART - C

III Answer the following (any 4) Q.No.22 is compulsory.

4x4=16

17. Which of the following are Pure Substances?

Ice, Milk, Iron, Mercury, Brick, Water, Hydrochloric acid.

18. Draw the structure of Oxygen and Sulphur atoms.

19. Differentiate Mass and Weight. (any 4)

20. What is Meant by Uniform circular motion? Give two examples of Uniform circular motion.

21. State True or False:

- a) Fishes have two chambered heart.
- b) Wings of birds are the modified forelimbs.
- c) Bipinnaria is the Larva of Mollusca.
- d) Canal system is seen in Colenterates.

22. Draw the Longitudinal section of shoot apex showing location of meristem and young leaves and label the parts.

PART - D

IV Answer in Detail.

2x7=14

23. a) Define Least count of any device.
b) Explain the different types of motion.

(Or)

Explain Tyndall effect and Brownian movement with suitable diagram.

24. Give an account on Phylum Arthropoda.

(Or)

- a) Why are frogs said to be amphibians?
- b) List out any 5 differences between Mitosis and Meiosis.