



Time: 1.30 Hours

Standard 9**SCIENCE**

Marks: 50

Part - I**Answer all the questions.****Choose the most appropriate answer:****10×1=10**

- 1) 1 Angstrom (A°)
 - a) 10^{-10}m
 - b) 10^{-9}m
 - c) 10^{-6}m
 - d) 10^{-3}m
- 2) 1 metric ton is equal to
 - a) 100 quintals
 - b) 10 quintals
 - c) 1/10 quintals
 - d) 1/100 quintals
- 3) The area under velocity - time graph represents the
 - a) Velocity of the moving object
 - b) displacement covered by the moving object
 - c) speed of the moving object
 - d) acceleration of the moving object
- 4) 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
- 5) Among the following is a mixture.
 - a) Common Salt
 - b) Pure silver
 - c) Carbon di oxide
 - d) juice
- 6) When we mix a drop of ink in water we get a
 - a) Heterogenous Mixture
 - b) Compound
 - c) Homogenous Mixture
 - d) Suspension
- 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) 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
- 9) Air sacs and Pneumatic bones are seen in
 - a) fish
 - b) frog
 - c) bird
 - d) bat
- 10) Excretory organ of tape worm is
 - a) flame cells
 - b) nephridia
 - c) body surface
 - d) solenocytes

Part - II**Answer any five questions. (Q19 is compulsory):****5×2=10**

11) Define measurement.

12) **Match it:**

Length	-	kelvin
Mass	-	metre
Time	-	kilogram
Temperature	-	second

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V9S

- 13) Define Velocity
- 14) Define Sublimation.
- 15) a) The number of neutrons present in ${}^7_3\text{Li}$ is
- b) The valency of Argon is
- 16) What is nematocyst?
- 17) Why are frogs said to be amphibians?
- 18) State whether True or False. If, false correct the statement:
 - a) Fishes have two chambered heart
 - b) Wings of birds are the modified forelimbs.
- 19) If a man has a mass 50kg on the earth, then what is his weight?

Part - III**4×4=16****Answer any four questions. (Q25 is compulsory):**

- 20) How will you find the thickness of a one rupee coin?
- 21) Explain different types of motion.
- 22) Write the differences between elements and compounds?
- 23) Give an account on phylum Annelida.
- 24) a) Define taxonomy.
- b) **Match it:**

Coelenterata	- Snail
Platyhelminthes	- Starfish
Echinodermata	- Tapeworm
Mollusca	- Hydra
- 25) Calculate the number of neutrons, protons and electrons.
 - i) atomic number 3 and mass number 7
 - ii) atomic number 92 and mass number 238

Part - IV**2×7=14****Answer all questions:**

- 26) a) i) Differentiate mass and weight.
- ii) Define standard unit. What is the full form of SI system?

(OR)

- b) Explain Tyndall effect and Brownian movement with suitable diagram

- 26) a) i) List five characteristic features of fishes.
- ii) How are the limbs of birds adapted for avian life?

(OR)

- b) Give an account on phylum Arthropoda.
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