V9S

Virudhunagar District

Common First Mid Term Test - 2024

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Standard 9

SCIENCE

Time: 1.30 Hrs.   Marks: 50

I. Choose the correct answer: 8×1=8

1) Rulers, Measuring tapes and Metre scales are used to measure

   a) mass   b) weight   c) time   d) length

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) Which one of the following is most likely not a case of uniform circular motion?

   a) Motion of the Earth around the sun

   b) Motion of a toy train on a circular track

   c) Motion of a racing car on circular track

   d) Motion of hours head on the dial of the clock

4) Among the following _____ is a mixture.

   a) Common salt   b) Juice   c) Carbon di oxide   d) Pure silver

5) _____ is essential of perform separation by solvent extraction method.

   a) Separating funnel   b) Filter paper

   c) Centrifuge machine   d) Sieve

6) Change in the number of neutrons in an atom changes it to

   a) an ion   b) an isotope   c) an isobar   d) another element

7) Mesoglea is present in _____.

   a) Porifera   b) Coelenterata   c) Annelida   d) Arthropoda

8) Identify the animal having four chambered heart.

   a) Lizard   b) Snake   c) Crocodile   d) Calotes

II. Answer ANY SIX of the following in briefly: 6×2=12

[Qn. no. 17 is compulsory]

9) Write the rules that are followed in writing the symbols of units in SI system.

10) Differentiate mass and weight.

11) Compare speed and velocity.

12) Define sublimation.

13) How are homogenous solutions different from heterogenous solution?

14) List five characteristic features of fishes.

15) Comment on the aquatic and terrestrial habits of amphibians.

16) Write the electronic configuration of K and Cl.

17) What are nucleons? How many nucleons are present in Phosphorous? Draw its structure.

III. Answer any four questions of the following: 4×4=16

[Qn.no. 22 is compulsory]

18) Explain different types of motion.

19) Explain Tyndall effect and Brownian movement with suitable diagram.

20) What conclusions were made from the observations of Gold foil experiment?

21) a) Define Taxonomy.

     b) What is nematocyst?

22) Inian and Ezhilan argue about the light year. Inian tells that it is $9.46×10^{15}$ m and Ezhilan argues that it is $9.46×10^{12}$ km. Who is right? Justify your answer.

IV. Answer in detail: 2×7=14

23) a) Explain a method to find the thickness of a hollow tea cup.

(OR)

     b) How is mixture of common salt, oil and water separated? You can use a combination of different methods?

24) a) Describe the characteristic features of different prochordates.

(OR)

     b) Give an account of Phylum Arthropoda.