FIRST MID TERM TEST - 2024
Standard - IX
SCIENCE

Time : 1.30 hrs   Marks: 50

I. Choose the correct answers:-   10×1=10

1) 1 metric ton is equal to
   a) 100 quintals   b) 10 quintals
   c) 1/10 quintals   d) 1/100 quintals

2) Which of 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) real force   b) the force of reaction of centripetal force
   c) virtual force   d) directed towards the centre of circular path

4) When we mix a drop of ink in water, we get a _____
   a) heterogenous mixture   b) compound
   c) homogenous mixture   d) suspension

5) Change in number of neutrons in an atom change it to _____
   a) an ion   b) an isotope   c) an isobar   d) another element

6) Identify the animal having four chambered heart _____
   a) lizard   b) snake   c) bird   d) bat

7) Air sacs and pneumatic boxes are seen in _____
   a) fish   b) frog   c) bird   d) bat

8) Poikilothermic organisms are _____
   a) fish, frog, lizard, man   b) fish, frog, lizard, cow
   c) fish, frog, lizard, snake   d) fish, frog, lizard, crow

9) The fibre consists of _____
   a) parenchyma   b) screlerenchyma
   c) collenchyma   d) none of the above

10) Smooth muscles occur is _____
    a) uterus   b) artery   c) vein   d) all the above

II. Answer in one or two sentences: (Any seven)
   (Question No.20 is compulsory)   7×2=14

11) Define least count of any device.

12) i) Speed is a _____ quantity whereas
    ii) Velocity is a _____ quantity.

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13) Match the following
   1) Sceleseois   -   Chorenchyma
   2) Chloroplast   -   Sclerenchyma
   3) Simple tissue   -   Phloem
   4) Companion cells   -   Collenchyma
14) Write the electronic configuration of K and Cl.
15) Name the apparatus that you used to separate two:
   i) miscible liquids   ii) immiscible liquids
16) What is nematocyste?
17) Say true/false
   i) Larva of amphibian is tadpole
   ii) Canal System is seen in Colenterata
18) Define Sublimation.
19) What is Complex tissues?
20) A racing car has a uniform acceleration of $4ms^{-2}$. What distance it covers in 10s after the start?

III. Answer in brief. (Any three)   3×4=12
21) Differentiate between flatworm and round worms.
22) Write four rules that are followed in writing the symbols of units in S.I. System
23) i) What is Brownian movement?
   ii) Write about Tyndall effect?
24) In which stage of metosis the chromosomes align in an equatorial plate? How?

IV. Answer in detail: (Any two)   2×7=14
25) Explain a method to find the thickness of a hollow tea cup. (7)
26) a) Draw the structure of Oxygen and Sulphur atoms. Write its electronic configuration. (5)
   b) Match the following: (2)
      i) Dalton   -   Plum pudding model
      ii) Chadwick   -   Discovery of nucleus
      iii) Rutherford   -   First atomic theory
      iv) J.J.Thomson -   Discovery of neutrons
27) Write about Phyllum arthropoda
28) Distinguish between mitosis and meiosis.

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