

**A**

**Standard - IX**

**Time : 3.00 hrs**

**SCIENCE**

**Marks: 75**

**Part - I**

**Choose the correct option given below the each questions:-**

**12×1=12**

- 1) Which among the following is not a device to measure mass?  
 a) Spring balance    b) Beam balance    c) Physical balance    d) digital balance
- 2) Which 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 a circular track  
 d) motion of hours hand on the dial of the clock
- 3) The size of an air bubble rising up in water  
 a) decreases    b) increases    c) remains same    d) may increase or decrease
- 4) Among the following \_\_\_\_\_ is a mixture  
 a) Common salt    b) Juice    c) Carbon dioxide    d) Pure Silver
- 5) 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
- 6) Elements in the modern periodic table are arranged in \_\_\_\_\_ groups and \_\_\_\_\_ periods.  
 a) 7, 18    b) 18, 7    c) 17, 8    d) 8, 17
- 7) Identify the animal having four chambered heart  
 a) Lizard    b) Snake    c) Crocodile    d) Calotes
- 8) Smooth muscles occur in  
 a) uterus    b) artery    c) vein    d) All of the above
- 9) The fibres consists of  
 a) parenchyma    b) sclerenchyma    c) collenchymas    d) None of above
- 10) The bending of root of a plant in response to water is called \_\_\_\_\_  
 a) Thigmonasty    b) Phototropism    c) Hydrotropism    d) Photonasty
- 11) Transpiration takes place through \_\_\_\_\_  
 a) fruit    b) seed    c) flower    d) stomata
- 12) Which key should be pressed to run a slide show?  
 a) F1    b) Tab    c) F5    d) F2

**Part - II**

**Answer any 7 questions. Q.No.22 is compulsory:-**

**7×2=14**

- 13) What is the full form of SI system?
- 14) Define Velocity.
- 15) Match the following:-
 

a) Density	-	hpg
b) Pascal's law	-	Milk
c) Pressure exerted by a fluid	-	Mass/Volume
d) Lactometer	-	Pressure

(2)

## IX SCIENCE

- 16) Define Sublimation.
- 17) A few drops of 'Dettol' when added to water the mixture turns turbid. Why?
- 18) State whether true or false. If false, correct the statement.
- a) Alloys bear the characteristics of both metals and nonmetals
- b) Group 17 elements are named as Halogens.
- 19) List the respiratory organs of amphibians.
- 20) Fill in the blanks:-
- a) \_\_\_\_\_ tissues provide mechanical support to organs.
- b) The green pigment present in the plant is \_\_\_\_\_
- 21) Complete the equation:  $6\text{CO}_2 + \text{_____} \xrightarrow{\text{Sunlight/Chlorophyll}} \text{_____} + 6\text{O}_2 + 6\text{H}_2\text{O}$
- 22) Write the steps to view the slide show.

## Part - III

Answer any 7 questions. (Q.No.32 is compulsory)

7×4=28

23) Match the following:

Physical Size

SI Unit

- |                |   |             |
|----------------|---|-------------|
| 1) Length      | - | a) Kelvin   |
| 2) Mass        | - | b) metre    |
| 3) Time        | - | c) Kilogram |
| 4) Temperature | - | d) second   |

- 24) Explain different types of motion
- 25) Why does a boat with a hole in the bottom would eventually sink?
- 26) Which of the following are pure substances?  
Ice, Milk, Iron, Hydrochloric acid, Mercury, Brick and Water
- 27) Draw the structure of oxygen and sulphur atoms.
- 28) State any five features of modern periodic table.
- 29) How are the limbs of the birds adapted for avian life?
- 30) How will you differentiate the different types of transpiration?
- 31) What is a Presentation?
- 32) A racing car has a uniform acceleration of  $4\text{ms}^{-2}$ . What distance it covers in 10s after the start?

## Part - IV

Answer briefly (If need draw diagram)

3×7=21

- 33) How will you find the thickness of a one rupee coin? [or]  
Explain the construction and working of a hydrometer with diagram.
- 34) Explain Tyndall effect and Brownian movement with suitable diagram. [or]  
What conclusions were made from the observations of Gold foil experiment?
- 35) a) What is Chlorophyll?  
b) Name the part of plant which shows positive geotropism. Why? [or]  
Write the characteristic features of fishes.

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