V7S

Virudhunagar District
Summative Assessment - September 2024

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Standard 7
SCIENCE

Time: 2.00 Hrs.

Marks: 60

I. Choose the correct answer: 10×1=10

1) SI unit of density is
   a) Kg/m²   b) Kg/m³   c) Kg/m   d) g/m³

2) A particle is moving in a circular path of radius 'r'. The displacement after a circle would be
   a) zero   b) R   c) 2r   d) r/2

3) The metal which is a liquid at room temperature is
   a) Chlorine   b) Sulphur   c) Mercury   d) Silver

4) The subatomic particle which revolves around the nucleus is _____.
   a) atom   b) neutron   c) electron   d) proton

5) Reproductive part of a plant is
   a) root   b) stem   c) leaf   d) flower

6) Our living place should be
   a) open   b) closed   c) clean   d) unclean/untidy

7) Which software is used to create symbols?
   a) Photoshop   b) Illustrator
   c) Vector graphics   d) Photostory

8) The _____ is a measure of how much space there is on a flat surface.
   a) Fundamental quantities   b) Derived quantities
   c) Area   d) Volume

9) The non metal which is a good conductor of electricity is
   a) Copper   b) Silver   c) Graphite   d) Aluminium

10) _____ have the smallest seed in the plant kingdom.
    a) Brinjal   b) Lady's finger
    c) Orchids   d) None of the above

II. Answer any 15 questions briefly: 15×2=30

11) What is one light year?

12) Distinguish between the volume of liquid and capacity of a container.

13) **Use the analogy to fill in the blanks:**
    a) Area : m² :: Volume : _____
    b) Liquid : Litre :: Solid : _____

14) What is centre of gravity?

15) Distinguish between Speed and Velocity.

16) **Fill in the blanks:**
    a) The shortest distance between, two place is _____.
    b) The rate of change of velocity is _____.

17) Geetha take 15 minutes from her house to reach her school on a bicycle. If the bicycle has a speed of 2 m/s. Calculate the distance between her house and the school.

18) Define Molecule.

19) Write the chemical formula and name the elements present in the compounds.
   a) Sodium chloride   b) Pottasium hydroxide
   c) Carbon dioxide   d) Calcium oxide
   e) Sulphur dioxide

20) **State True or False. If false give the correct statement:**
   a) Two different elements may have similar atoms.
   b) Compounds and elements are pure substances.

21) **Match the following:**
   i)   Valency   -   Fe
   ii) Neutral particle -   Monovalent
   iii) Iron   -   Electrons in the outermost orbit
   iv) Hydrogen   -   Neutron

22) Name the sub-atomic particles.

23) Differentiate mass number from atomic number.

24) What is cross pollination?

25) What are the two important parts of a flower?

26) Define - Pollination.

27) What is hygiene?

28) Give any two communicable diseases, which spread in your locality during monsoon?

29) **Match the following:**
   i)   Rabies   -   Cactus
   ii) Tuberclosis   -   Sugarcane
   iii) Stilt root   -   Hydrophobia
   iv) Phylloclade   -   Mycobacterium

30) What is Raster Graphics?

III. Answer in detail: 4×5=20

31) How will you determine the density of a stone using a measuring jar?

(OR)

Write about the experiment to find the centre of gravity of the irregularly shape plate.

32) Differentiate metals and non-metals.

(OR)

Draw the structure of an atom and explain in the position of the sub-atomic particles.

33) a) Differentiate bisexual flower from unisexual flower.
    b) Write notes on phyllode.

(OR)

Write a brief account on pollination.

34) Write about any three communicable diseases in detail.

(OR)

   a) Write about the rightway of protecting the eyes.
   b) How to keep your hair clean and healthy?