SUMMATIVE ASSESSMENT – FIRST TERM

SCIENCE

Max. Marks: 60

Std - VII

Time: 2 Hrs

I. Choose the correct answer: **12 x 1 = 12**

1. Which of the following is a derived quantity?

    a) Temperature   b) Time   c) Speed   d) Length

2. A solid of density 0.92 g/cc _____.

    a) sinks in water   b) sinks in kerosene

    c) floats in kerosene   d) cannot say

3. When a body is thrown vertically upwards its velocity will _____.

    a) increase   b) not change

    c) decrease   d) increase and decrease

4. A particle is moving in a circular path of radius 'r'. The displacement after half a circle would be _____.

    a) zero   b) r   c) 2r   d) r/2

5. The smallest particle of an element is called its _____.

    a) molecule   b) compound   c) element   d) atom

6. An example of metalloids is _____.

    a) carbon   b) oxygen   c) arsenic   d) uranium

7. The mass of a proton is almost _____ greater than an electron.

    a) 2000   b) 1500   c) 1000   d) 2500

8. The total number of electrons in an atom is called its _____

   a) mass number　　　　　　　　　　b) atomic number
   c) number of neutrons　　　　　　　d) valency

9. Spirogyra reproduces asexually by_____

   a) fragmentation　b) budding　　c) spore　　　　d) leaves

10. Sunflower is a _____

   a) Mesophyte　　b) Xerophyte　　c) Hydrophyte　　d) Marine

11. Hydrophobia is the symptom of _____.

   a) Rabies　　　b) Chicken pox　c) Cholera　　　d) Mumps

12. _____ is a tissue that lines the inner surface of the eyelid.

   a) Iris　　　　b) Retina　　　c) Conjunctiva　d) Sclera

II. Answer the following questions: (Any 14)　　　　　　14 x 2 = 28

1. Differentiate between an astronomical unit and light year?

2. Define volume. What is the SI unit used to describe volume?

3. Why is it important to find the centre of mass of a body?

4. Define centre of mass.

5. What is acceleration? Give the SI unit of acceleration.

6. What are metalloids? Give two examples.

7. Why is Na used as the symbol for sodium?

8. Analogy questions:

   a) Atomic number: _____, Mass number: number of protons and neutrons.

   b) Elements: Combine to form compounds : : Compounds : _____

9. Why is Thomson's atomic model called the watermelon model?

10. Calculate valency with respect to oxygen:

   i) MgO ii) Co_2

11. Define reproduction.

12. a) Assertion and Reason:

   i) Assertion: The tap root system is mainly seen in dicots.

   ii) Reason: The thick primary root is the dominant root that performs all the important functions.

   a) Both A and R are true. b) A is true, but R is false.

   c) Both A and B are false. d) A is false, but R is true.

   b) Fill-ups: _____ is a mild form of gum disease.

13. Why is a good posture important?

14. What is hygiene? What is the difference between personal and social hygiene?

15. How do bees and insects help in pollination?

16. Define health.

III. Answer in detail: 4 x 5 = 20

1. A piece of metal has a volume of 12 CC and a mass of 87g. What is the density in different units?

(or)

   Differentiate between.

   a) Distance and displacement

   b) Speed and velocity

2. Explain the effect of heat on the three states of matter, starting with solid.

(or)

Can an atom exist with no electron in it? Explain.

3. What is pollination? Describe the two types of pollination.

(or)

What is vegetative propagation?

4. What is the difference between communicable and non-communicable diseases?

(or)

Identify the different ways of protecting the eyes.