



**Periodic Assessment - I :2021-22**

Student Name					
Date		Grade	X	Roll No.	
Subject	Science	Marks	50	Teacher's Sign	

**GENERAL INSTRUCTION:**

- The question paper contains 3 sections. Attempt all the section
- All questions are compulsory
- Section A contains one word / MCQ answer/ question.
- Section B contains very short answer question.
- Section C contains short answer questions.

**SECTION A**

**[A] Answer the following questions in one word:**

**[5-Marks]**

- 1) Which of the following are energy foods?
  - (a) Carbohydrates and fats
  - (b) Proteins and mineral salts
  - (c) Vitamins and minerals
  - (d) Water and roughage
- 2) In which mode of nutrition an organism de-rives its food from the body of another living organism without killing it?
  - (a) Saprotrophic nutrition
  - (b) Parasitic nutrition
  - (c) Holozoic nutrition
  - (d) Autotrophic nutrition
- 3) A substance which oxidizes itself and reduces other is known as
  - a) Oxidising agent
  - b) reducing agent
  - c) Both (a and (b)
  - d) None of these
- 4) The rate of flow of an electric charge is known as?
  - (a) Electric potential
  - (b) electric conductance
  - (c) electric current
  - (d) none of these
- 5) The relation between potential difference (V) and current (I) was discovered by ?
  - (a) Newton
  - (b) Ampere
  - (c) ohm
  - (d) Volta

## SECTION - B

**Answer the following in short:**

**[18 Marks]**

- 6) What is the role of the acids in our stomach?
- 7) How are the lungs designed in human beings to maximize the area for exchange of gases?
- 8) Where do plants get each of the raw materials required for photosynthesis?
- 9) Name a device that helps to maintain a potential difference across a conductor.
- 10) What is Resistivity (P)?
- 11) Calculate the number of electrons constituting one coulomb of charge.?
- 12) A student took 2-3 g of a substance X in a glass beaker & poured water over it slowly. He observed bubbles along with hissing noise. The beaker becomes quite hot. Identify X. What type of reaction is it?
- 13) What do you mean by a precipitation reaction? Explain by giving examples.
- 14) Balance the following chemical equations:
  - i.  $\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$
  - ii.  $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{NaNO}_3$

## SECTION - C

**Answer the following questions in brief:**

**[27 Marks]**

- 15) What are the components of transport system in highly organized plants?
- 16) What are different ways in which glucose is oxidized to provide energy in various organisms?
- 17) How is small intestine designed to absorb digested material?
- 18) Why are coils of electric toasters and electric irons made of an alloy rather than a pure metal?
- 19) Draw a schematic diagram of a circuit consisting of a battery of three cells of 2 V each, a 5Ω resistor, an 8 Ω resistor, and a 12 Ω resistor, and a plug key, all connected in series.
- 20) What are the advantages of connecting electrical devices in parallel with the battery instead of connecting them in series?
- 21) What does one mean by exothermic and endothermic reactions? Give examples.
- 22) Identify the substances that are oxidized and the substances that are reduced in the following reactions:
  - i)  $4\text{Na(s)} + \text{O}_2(\text{g}) \rightarrow 2\text{Na}_2\text{O(s)}$
  - ii)  $\text{CuO(s)} + \text{H}_2 \rightarrow \text{Cu(s)} + \text{H}_2\text{O(l)}$
- 23) Why decomposition reactions are called the opposite of combination reactions? Write equations for these reactions.

\*\*\*\*\***Best of Luck**\*\*\*\*\*