

**Standard 9****SCIENCE**

Time: 1.30 Hrs.

Marks: 50

I. Choose the correct answer:**8×1=8**

- 1) In current electricity, a positive charge refers to,
a) presence of electron b) presence of proton
c) absence of electron d) absence of proton
- 2) Which of the following converts electrical energy into mechanical energy?
a) Motor b) Battery c) Generator d) Switch
- 3) Covalent bond is formed by _____.
a) transfer of electrons b) sharing of electrons
c) sharing a pair of electrons
- 4) Acids turn blue litmus paper to _____.
a) green b) red c) orange
- 5) Bile helps in the digestion of _____.
a) proteins b) sugar c) fats d) carbohydrates
- 6) Food and Adulteration Act was enforced by Government of India in the year _____.
a) 1964 b) 1954 c) 1950 d) 1963
- 7) The nutrient required in trace amounts to accomplish various body functions is _____.
a) Carbohydrate b) Protein c) Vitamin d) Fat
- 8) The physician who discovered that Scurvy can be cured by ingestion of citrus fruits is _____.
a) James Lind b) Louis Pasteur
c) Charles Darwin d) Issaac Newton

II. Write any 6 questions only. Question No. 16 is compulsory:**6×2=12**

- 9) Define electric current and give its unit.
- 10) List the main parts of an electric motor.
- 11) NaCl is Insoluble in Carbon tetra chloride but soluble in water - Give reason.
- 12) Write the uses of Acids.
- 13) Mention any two vital functions of human kidney.
- 14) **Differentiate:**
a) Kwashiorkar and Marasmus
b) Macronutrients and Micronutrients
- 15) Why do we sweat?
- 16) Draw the electron distribution diagram for the formation of Carbon di Oxide (CO₂) molecule.

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III. Write any 4 questions only. Question No. 22 is compulsory: 4×4=16

- 17) Differentiate step up and step down transformer.
- 18) Explain Octet rule with an example.
- 19) Differentiate hydrate and anhydrous salts with examples.
- 20) Name the types of teeth present in an adult human being. Mention the functions of each.
- 21) Explain the structure of Nephron.
- 22) Rubbing a comb on hair makes the comb get $-0.4C$.
 - a) Find which material lost electron and which one gained it.
 - b) Find how many electrons are transferred in this process.

IV. Answer in detail: 2×7=14

- 23) Draw a neat diagram of an AC generator and label the important parts.

(OR)

List down the differences between Ionic and Covalent compounds.

- 24) Explain the structure of Kidney and the steps involved in the formation of urine.

(OR)

- a) Explain any two methods of food Preservation.
 - b) What is an adulterant?
 - c) What are the effects of consuming adulterated food?
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