



APPLIED SCIENCES HSSC-I

50

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE: Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 26)

Q. 2 Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2 = 26)

- (i) Write two uses of oxygen.
- (ii) Define saturated and super saturated solution with one example of each.
- (iii) Write three disadvantages of friction.
- (iv) Write two major applications of water.
- (v) Write three differences between mass and weight.
- (vi) State Newton's 2nd law of motion.
- (vii) What are Hydrates? Also give an example.
- (viii) Define speed and velocity. Also give their formulas and units.
- (ix) Define stable, unstable and neutral equilibrium.
- (x) Write three benefits of pressure.
- (xi) Define oxidation and reduction; also give one example of each.
- (xii) Define neutralization reaction, also give its equation.
- (xiii) Differentiate between ionic and covalent bond.
- (xiv) Write three clinical applications of gravity.
- (xv) State Charles's law with its mathematical expression.
- (xvi) Write three uses of $NaHCO_3$.
- (xvii) Define Electrolyte and Ionization.

SECTION - C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 7 = 14)

- Q. 3 Describe the common properties of Acids and Bases?
- Q. 4 Define evaporation with all its factors which affect evaporation.
- Q. 5 Explain any three types of chemical reactions with examples.