



ELEMENTARY CHEMISTRY AND CHEMICAL PATHOLOGY

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

- (i) What are Lipids?
- (ii) Define Amino acids. Give general formula of amino acids.
- (iii) What is the difference between LDL and HDL?
- (iv) Explain the principle of Fractional distillation.
- (v) Define pH.
- (vi) Give Handerson Hassel Bach equation.
- (vii) Vitamin B Complex is a mixture of vitamins. Give their names.
- (viii) What are Enzymes?
- (ix) Write down the role of Thyroid glands.
- (x) Define Atomic number.
- (xi) Write down the mathematical expression for Beer's Law.
- (xii) What is the role of vitamins in maintaining health?
- (xiii) What is the difference between Direct and Indirect bilirubin?
- (xiv) Define Normal Solution.
- (xv) Write down the chemical formula of the following:
Copper sulphate, Sodium carbonate, Chloroform, Trichloroacetic acid
- (xvi) What are Electrolytes?
- (xvii) What is the function of proteins in human beings?

SECTION – C (Marks 14)

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

(2 x 7 = 14)

- Q. 3** What are Carbohydrates? Classify them. What is the role of carbohydrates in human body?
- Q. 4** Give one method for the estimation of each of the following in the blood:
- (i) Creatinine (ii) Uric acid (iii) Bilirubin
- Q. 5** What are Vitamins? Discuss their metabolism and importance in maintenance of normal body functions.