

(b) Write *true* or *false* :

- (i) The normal range for plasma or serum bicarbonate is 10-20 m mol/l
- (ii) Proteins is the only source of nitrogen in the body.
- (iii) All proteins are made up of amino acids.
- (iv) Human chorionic gonadotrophin is a lipo protein.
- (v) The normal range of blood urea is 60 - 70 mg%

PART - B

2. Write short answers on the following : 2x5=10
- (a) Peptide Bond
 - (b) Internal control used in biochemistry lab
 - (c) Common instrumental accidents occur in the lab
 - (d) Write the need of automation in the lab.
 - (e) Features of tumor markers.

PART - C

3. Write short notes on *any four*. 4x5
- (a) B HCG
 - (b) Common causes of fire in the lab
 - (c) Semi - auto analysers
 - (d) Transamination
 - (e) Disinfectant used in the lab
 - (f) Pre analytical problems occur in the Biochemistry lab.

PART - D

Answer *any three* questions.

4. (a) What are the important functions of thyroid hormone ? 3+3+4
- (b) List the screening test used in thyroid functions, normal value of each test.
- (c) Describe the clinical importance of these tests in the diagnostic field.
5. (a) What is blood urea ? 2+5+3
- (b) Describe the urea cycle
- (c) Write the normal value of blood urea and the clinical importance of the above test.
6. (a) Write the principles of serum protein electrophoresis. 2+6+2
- (b) Name different supporting media used for the migration of protein and write and describe a commonly used method for serum protein electrophoresis.
- (c) Describe the normal and abnormal Immuno electrophore patterns of globulins and write the clinical significance.
7. (a) Write the importance of the laboratory waste management. 2+3+5
- (b) Write the different types of biomedical waste.
- (c) Describe the various methods of laboratory waste treatment.