LMDE/M-24   7030

CLINICAL BIOCHEMISTRY
BCH-202-A
(wef 2023-24)

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions. All questions carry equal marks. Q. No. **1** is compulsory. Attempt *four* more questions selecting *one* question from each Unit. Marks are indicated against each question.

Compulsory Question

1. Explain the following terms :
   (i)   Collection and storage of blood
   (ii) Clinical significance of C-reactive protein
   (iii) Why enzymes are used for disease diagnosis
   (iv) Mention liver function tests
   (v)   Hyperlipidemia
   (vi) Hypothyroidism
   (vii) Alzheimer's disease
   (viii) Disorders due to deficiency of calcium.   **8×2=16**

Unit I

2. (i) Discuss the different types of porphyria.

(ii) Explain collection, storage and preservation of cerebrospinal fluid. **8,4,4**

3. (i) Discuss the types, functions and clinical significance of different types of plasma proteins.

(ii) Explain Levy Jening's chart. **10,6**

Unit II

4. (i) What are isoenzymes ? Discuss their importance in disease diagnosis.

(ii) Explain pancreas and gastrointestinal function tests. **8,8**

5. Explain Xenobiotics. Discuss different phases of detoxification reactions in detail. **16**

Unit III

6. Write notes on the following :

(i) Hypouricemia

(ii) Hypolipoproteinemia

(iii) Cystinuria

(iv) Gout. **4×4=16**

7. (i) Explain basis and significance of glucose tolerance test.

(ii) Discuss the disorders of fat soluble vitamins. **7,9**

Unit IV

8. (i) How are water and acid-base balance is maintained. Explain metabolic and respiratory acidosis.

(ii) Discuss hypochloremia. **12,4**

9. (i) What is Parkinson's disease and its clinical manifestations ? How do they affect the patient's daily life and long-term prognosis.

(ii) Explain disorders of anterior pituitary hormone especially of Growth hormone. **8,8**