

B.Sc. F.Y. (CBCS Pattern) Semester - II
USBCT-C04 - Biochemistry-II (Clinical Biochemistry and Immunology)

P. Pages : 2

Time : Three Hours



GUG/S/23/11571

Max. Marks : 50

Notes : 1. All questions are compulsory and carry equal marks.

1. Discuss the structure and function of liver. 10

OR

- a) Discuss hippuric acid test to assess liver function. **2½**
- b) Write a note on van den Bergh test. **2½**
- c) Explain the serum enzymes SGPT used to assess liver function and give their normal serum. concentration. **2½**
- d) Write a note on Jaundice. **2½**

2. Discuss the structure and function of kidney. 10

OR

- a) Write a note on urea clearance tests. **2½**
- b) Write a brief note on Normal and abnormal constituents of urine. **2½**
- c) Discuss the Creatinine Clearance Test. **2½**
- d) Write a note on Glomerular nephritis. **2½**

3. Discuss in detail Basic structure of IgG. 10

OR

- a) Give the structure and function of Thymus. **2½**
- b) Write a note on B-Lymphocyte. **2½**
- c) Differentiate between Cell mediated and Humoral Immunity. **2½**
- d) Explain Haptens with proper example. **2½**

4. Discuss in detail production of Monoclonal antibodies. 10

OR

- a) Discuss immunodiffusion with example. 2½
- b) Write a note on ELISA. 2½
- c) Discuss autoimmunity with two disorders. 2½
- d) What hypersensitivity? Enlist its types. 2½

5. Solve any 10 from following. 10

- a) Name the marker used to assess liver function related to heme metabolism.
- b) What is icterus Index?
- c) Albumin is solely synthesized by-----
- d) Name the hormone synthesized by kidney.
- e) Name two waste product excreted by kidney.
- f) Give full form of GFR.
- g) Define Antigen.
- h) Define Adjuvant.
- i) Synthesis of T-Cell occurs in----- and maturation occurs in-----
- j) Define agglutination.
- k) Who Discovered RIA technique?
- l) Give one example of agglutination reaction.
