



CBCS SCHEME

17BT46

Fourth Semester B.E. Degree Examination, June/July 2019
Clinical Biochemistry

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is Glucose tolerance test? Describe the procedure, importance and variation in glucose tolerance test. (10 Marks)
b. Explain in detail about different types of lipoproteins. How are HDL, LDL and triglycerides diagnosed in clinical laboratory. (10 Marks)

OR

- 2 a. Explain in detail about different types of Sphingolipidoses. (10 Marks)
b. Write a note on Galactosemia and Ketone bodies. (10 Marks)

Module-2

- 3 a. Discuss the genetic conditions of Phenylketonuria, its causes, pathophysiology, symptoms and treatment. (10 Marks)
b. Write a note on Maple syrup urine disease and tyrosinemia. (10 Marks)

OR

- 4 a. Discuss in detail any two disorders associated with purine metabolism. (10 Marks)
b. Elaborate on the condition of homocystinuria and aminoaciduria. (10 Marks)

Module-3

- 5 a. Elaborate on various kidney function tests and their clinical importance. (10 Marks)
b. Discuss the role of serum enzymes in the diagnosis of myocardial infarction. (10 Marks)

OR

- 6 a. Discuss in detail on serum markers in liver diseases. (10 Marks)
b. Write in detail about pancreatic and intestinal function tests. (10 Marks)

Module-4

- 7 a. What are the hormones secreted by the thyroid gland? Discuss their hypo and hyper secretion disorders. (10 Marks)
b. Discuss the regulation of Calcium metabolism. (10 Marks)

OR

- 8 a. Discuss about the hormones produced in female gender and their hypo and hyper secretion disorders. (10 Marks)
b. Discuss the hormones produced by pituitary gland and their hypo and hyper secretion disorders. (10 Marks)

Module-5

- 9 a. What are Hemoglobinopathies? Write about their pathophysiology and classification. (10 Marks)
b. Discuss in detail the detoxification mechanism and enzymes of detoxification in the body. (10 Marks)

OR

- 10 a. Elaborate on the condition of Thalassemia and Thrombosis. (10 Marks)
b. Discuss in detail about the mechanism of drug action and various modes in which drugs are excreted from the body. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.