

CBCS Scheme

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15BT46

Fourth Semester B.E. Degree Examination, June/July 2018

Clinical Biochemistry

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. What is Diabetes Mellitus? Explain about Type 1 and Type 2 diabetes mellitus. (08 Marks)
b. Discuss about the clinical significance of Ketone bodies. (04 Marks)
c. Elaborate on the condition of galactosemia. (04 Marks)

OR

- 2 a. Explain about Sphingolipidoses and discuss any one type. (08 Marks)
b. Write short notes on : i) Lipoproteins ii) Diagnostic tests for HDL. (08 Marks)

Module-2

- 3 a. Discuss in detail about the clinical condition of Phenyl ketonuria. (08 Marks)
b. Write short notes on : i) Lesch – Nyhan Syndrome ii) Maple Syrup urine disease. (08 Marks)

OR

- 4 a. Explain about the clinical disorder of gout, its causes and modes of treatment. (08 Marks)
b. Elaborate on the condition of albinism. (04 Marks)
c. Describe the disorder occurring due to deficiency of adenosine deaminase enzyme. (04 Marks)

Module-3

- 5 a. Discuss about the enzymatic tests for myocardial infarction. (08 Marks)
b. i) Explain clinical importance of billuribin.
ii) Explain significance of serum enzymes in analysis in clinical practice and enzymes of pancreatic origin. (08 Marks)

OR

- 6 a. Discuss the various liver function tests and their clinical importance. (08 Marks)
b. Discuss the clinical significance of CK. (08 Marks)

Module-4

- 7 a. Discuss protein hormones and their functions. (08 Marks)
b. Write short notes on : i) Hypocalcemia ii) Gonadal hormones. (08 Marks)

OR

- 8 a. Elaborate on the endocrinology of Thyroid hormones. (08 Marks)
b. Write short notes on : i) Minerals corticoids ii) Hypo phosphataemia. (08 Marks)

Module-5

- 9 a. Discuss in detail about hemoglobinopathies. (08 Marks)
b. Explain about the various channels of drug excretion. (04 Marks)
c. Describe the disorders associated with vitamins. (04 Marks)

OR

- 10 a. Explain the mechanism involved in detoxification of drugs by enzymes. (08 Marks)
b. Write short notes on : i) Sickle cell anemia ii) Thrombosis. (08 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.