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Fourth Semester B.E. Degree Examination, Dec.2024/Jan.2025 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. Write the reaction steps involved in Glycolysis pathway. (10 Marks)
- b. Give an account on Phospholipids and Glycolipids. (10 Marks)

OR

- 2 a. Write a note on regulation of TCA cycle. (10 Marks)
- b. Write the reaction steps in cholesterol biosynthesis. (10 Marks)

Module-2

- 3 a. Discuss various types of Glucose tolerance tests. (10 Marks)
- b. Write a note on Glycogen Storage diseases. (10 Marks)

OR

- 4 a. Discuss about Diagnostic tests for HDL, LDL and other triglycerides. (10 Marks)
- b. Give an account on Diabetes Mellitus and its applications. (10 Marks)

Module-3

- 5 a. Explain the reactions involved in Urea cycle. (10 Marks)
- b. Discuss in detail about regulation of Amino acid metabolism. (10 Marks)

OR

- 6 a. Write a note on Deamination and transamination with suitable example. (10 Marks)
- b. Give an account on Metabolism of Purines. (10 Marks)

Module-4

- 7 a. Write about Thyroid hormones and their specific functions. (10 Marks)
- b. Discuss in detail about pituitary gland hormones. (10 Marks)

OR

- 8 a. With suitable examples, explain about disorders of Nucleic acid metabolism. (10 Marks)
- b. Write a note on Adrenocortico steroids and steroid hormones. (10 Marks)

Module-5

- 9 a. Give an account on Clinical importance of bilirubin. (10 Marks)
- b. Discuss the clinical significance of LDH and creatine kinase. (10 Marks)

OR

- 10 a. Write a note on Evaluation of organ function tests with respect to hepatic and Renal. (10 Marks)
- b. Discuss enzyme tests in determination of Myocardial infarction. (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.