

45021

M.Sc. DEGREE EXAMINATION, APRIL 2015.

FOURTH SEMESTER

Biochemistry

Paper I — CLINICAL BIOCHEMISTRY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

SECTION A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 2 pages.

1. Lactose intolerance.
2. Collection and preservation of specimens in a clinical laboratory.
3. Alkaptonuria.
4. Write notes on nephritic syndrome.
5. Explain how pentagastrin test help in assessing gastric function.
6. Write notes on clinical importance of alkaline phosphatase.
7. What are the complications of hyperbilirubinemia?
8. Role of serum enzymes in liver disease.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Discuss briefly about classification, etiology and clinical features of Diabetes mellitus.

Or

10. Write notes on:
 - (a) Hereditary fructosuria
 - (b) Hazards in clinical laboratory
 - (c) Investigation of glycogen storage diseases.

11. Discuss about plasma lipids and lipoproteins, their functions and biochemical significance.

Or

12. Give an account of inborn errors of amino acid metabolism and biochemical manifestations of them.

13. Explain how you evaluate the exocrine function of the pancreas.

Or

14. Write notes on :

(a) Isozymes of LDH

(b) Clinical importance of creatine kinase

(c) Disorders of gastrointestinal tract.

15. What are the types of jaundice and discuss the diagnostic tests used for its diagnosis?

16. Write notes on homeostasis and discuss the role of blood buffers and bicarbonate — buffering system in maintaining acid base balance.

