

QP Code: 312020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Supplementary Examinations
September 2025**

Clinical Biochemistry

(2016 Scheme)

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay

(2x15=30)

1. How is blood glucose level regulated. Describe various methods of glucose estimation
2. What is metabolic alkalosis. Enumerate its causes. What are the compensatory mechanisms

Short Essay

(2x10=20)

3. Biochemical basis of ageing
4. Briefly discuss the regulatory mechanisms of water and electrolyte balance

Short Answers

(6x5=30)

5. Principle and method of estimation of serum cholesterol
6. What are the indications of therapeutic drug monitoring
7. Toxic effects of ethanol on body
8. Acute phase proteins
9. Lipid profile
10. Hyperkalemia

Comment on

(10x2=20)

11. Cytochrome P450
12. Blood buffers
13. Phase 2 detoxification
14. Food adulterants
15. Biological effects of pesticides
16. Lipoprotein (a)
17. AG ratio
18. Microalbuminuria
19. Transport proteins
20. Name three acute complications of Diabetes mellitus
