

QP Code: 312020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary
Examinations February 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. Give the normal fasting plasma glucose levels. Explain the effects of hormones on glucose level in blood.
2. Name the plasma proteins. Discuss their major functions and clinical significance.

Short Essay

(2x10=20)

3. Renin-angiotensin system
4. What is the normal pH of blood. Describe the role of blood buffers in acid-base regulation

Short Answers

(6x5=30)

5. Biochemical changes associated with ageing process
6. Respiratory acidosis
7. Phase one detoxification reactions
8. Biochemical basis of type II hyperlipoproteinemia
9. What are the causes, signs and symptoms of Hypokalemia
10. Discuss the different methods of estimation of blood urea

Comment on

(10x2=20)

11. Osmolality
12. Reducing substances in urine
13. Defect in Tangier disease
14. Diabetic ketoacidosis (DKA)
15. Hypochloremic alkalosis
16. Metabolism of ethanol
17. Polyunsaturated fatty acids (PUFA)
18. Normal serum electrolyte values
19. Familial hypercholesterolemia
20. Arterial Blood Gas (ABG) analyzer
