

QP Code: 312020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Supplementary Examinations
August 2024**

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. What is metabolic acidosis. Enumerate its causes. What are the compensatory mechanisms
2. State the diagnostic criteria of diabetes mellitus (DM). What are the symptoms and complications of DM

Short Essay

(2x10=20)

3. Discuss hypovolemia along with causes, symptoms and laboratory findings
4. Different techniques employed for the separation of plasma proteins

Short Answers

(6x5=30)

5. Creatinine clearance test
6. Detoxification by conjugation
7. Principle and method of estimation of serum cholesterol
8. Role of antidiuretic hormone (ADH) in water balance
9. What are the indications of therapeutic drug monitoring
10. Prevention of atherosclerosis

Comment on

(10x2=20)

11. Xenobiotic
12. Lipid profile
13. Anion gap
14. Hyponatremia
15. Alpha 1 antitrypsin deficiency
16. Cytochrome P450
17. Glycated hemoglobin (HbA1c)
18. Types of food preservatives
19. Edema
20. Renal glycosuria
