

QP Code: 312020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary
Examinations February 2023
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. Describe the various mechanisms for the regulation of acid base homeostasis.
2. Discuss the methods for the separation of plasma proteins. Describe the estimation of albumin.

Short Essay

(2x10=20)

3. Therapeutic drug monitoring.
4. Blood glucose regulation

Short Answers

(6x5=30)

5. Hypoglycaemia.
6. Acute phase proteins.
7. Phase I detoxification reactions.
8. Regulation of water and electrolytes.
9. Glycated haemoglobin.
10. Estimation of cholesterol.

Comment on

(10x2=20)

11. Anion gap.
12. Glutathione and its role in detoxification.
13. AG ratio.
14. Hexokinase method for glucose estimation.
15. Lipotropic factor.
16. Alpha 1 antitrysin.
17. Friedewald's formula.
18. Ehrlich's test
19. Jaffe's reaction.
20. NAFL
