

QP Code: 312020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary
Examinations April 2022
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. Discuss the clinical significance and methods of estimations of Urea, Creatinine and Uric acid
2. Illustrate the biotransformation mechanisms involved in detoxification in body

Short Essay

(2x10=20)

3. Functions of albumin and manifestations of hypoalbuminemia
4. Blood buffers

Short Answers

(6x5=30)

5. HbA1c
6. Mention the normal sodium level and clinical manifestation of hyponatremia.
7. Atherosclerosis and significance of HDL
8. Alpha 1- antitrypsin deficiency
9. Factors affecting pH of blood
10. Blood osmolarity

Comment on

(10x2=20)

11. Functions and significance of Low density lipoprotein
12. Hormonal regulation of blood sugar
13. Von-Gierke's disease
14. Albumin – globulin ratio
15. Benedict's test
16. Lipid storage disorders.
17. Four enzymes of diagnostic significance in liver diseases
18. Lactose intolerance
19. Phenylketonuria and enzymatic defect associated with it
20. Heat coagulation of proteins
