

2016 Scheme

QP Code: 412020

Reg. No.....

Fourth Year B.Sc. Medical Biochemistry Degree Supplementary Examinations July 2025

Paper XIII - Diagnostic Biochemistry and Laboratory Management

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

Essays

(2x15=30)

1. Define reference interval. Describe the analytical and statistical procedures used in establishing reference interval of an analyte
2. Discuss the important considerations to be taken into account while setting up a clinical biochemistry laboratory

Brief Essays

(2x10=20)

3. Laboratory Automation
4. Liver Function Tests

Short answers

(6x5=30)

5. Basic requirements in a hematology laboratory
6. Dry chemistry analyzer
7. Diagnostic importance of amniotic fluid
8. Importance of record maintenance
9. External Quality Control programs
10. Thyroid Function Tests

Comment on

(10x2=20)

11. Uses of CEA
12. Normal levels of (1) Serum ALT, (2) Serum ALP
13. Saliva as a specimen
14. Control Serum
15. Normal levels of (1) Serum Amylase, (2) Serum Lipase
16. A/G reversal
17. NT-pro-BNP
18. Name two possible analytical errors
19. Coefficient of Variation
20. Types of centrifuges
