

2016 Scheme

QP Code: 412020

Reg. No.....

Fourth Year B.Sc. Medical Biochemistry Degree Regular/Supplementary Examinations January 2024

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 classification and the importance of tumour markers. Add a note on utility of any two tumor markers in medicine.

Brief Essays

(2x10=20)

3. Give an account of disposal biohazardous, chemical and radioactive waste from a laboratory
4. Discuss laboratory automation

Short answers

(6x5=30)

5. Universal safety precautions in a clinical laboratory.
6. Urine preservatives
7. Basic requirements in a microbiology laboratory
8. Discrete analyzer
9. Preanalytical errors
10. Sample collection requirements

Comment on

(10x2=20)

11. Cardiac biomarkers
12. Accuracy
13. Coefficient of variation
14. Serum enzymes useful to assess liver function
15. Diagnostic importance of pleural fluid
16. Merits of dry chemistry analyzer
17. Importance of maintaining records in the laboratory
18. Types of blood specimens
19. Precautions to be taken while centrifuging specimens
20. Control serum
