

# **2016 Scheme**

**QP Code: 412020**

**Reg. No.....**

## **Fourth Year B.Sc. Medical Biochemistry Degree Supplementary Examinations July 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. Discuss the role of automation in a clinical biochemistry laboratory. Describe the merits and demerits of different types of auto-analyzers. What are the recent trends in automation of clinical biochemistry laboratory
2. Discuss classification and uses of tumor markers

#### **Brief Essays**

**(2x10=20)**

3. Pre-analytical variables in clinical laboratory
4. Total Quality Management (TQM) in clinical laboratory

#### **Short answers**

**(6x5=30)**

5. Thyroid function tests
6. Cardiac troponins
7. Internal Quality Control
8. Prostate Cancer Biomarkers
9. Enzymes used in the differential diagnosis of jaundice
10. Diagnostic importance of sweat

#### **Comment on**

**(10x2=20)**

11. Uses of bHCG
12. Normal levels of (1) Blood Urea, (2) Serum Creatinine
13. Name two thyroid function tests elevated in hyperthyroidism
14. Bence Jones Protein
15. Name two pancreatic function tests
16. Diagnostic importance of semen
17. Name two urine preservatives
18. Sensitivity and specificity
19. Standard Deviation
20. Name two quality control charts

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