

M.Sc. 1st Semester Examination, 2024
BIO-MEDICAL LABORATORY SCIENCE
AND MANAGEMENT

(Diagnostic Biochemistry)

PAPER—BML-103

Full Marks : 50

Time : 2 hours

Answer all questions

The figures in the right hand margin indicate marks

*Candidates are required to give their answers in
their own words as far as practicable*

GROUP — A

Answer any four questions from the following :

2 × 4

- 1. Name any two specific markers of LFT.**
- 2. What is macroamylasemia ?**

(Turn Over)

3. What is BAO ?
4. What do you mean by dynamic function test ?
Give example.
5. What is myocardial infarction ?
6. Write the normal values of total bilirubin in
adult male and female. 1 + 1

GROUP – B

Answer any **four** questions from the following : 4 × 4

7. Discuss briefly the pentagastrin stimulation test.
8. What important factors should you consider at the time of collection and preservation of specimen for biochemical analysis.
9. Discuss about the different components of UV-VIS spectrophotometer.

10. Write short note on carbon monoxide toxicity.
11. Write the procedure of protein free blood filtrate preparation for biochemical tests.
12. Name the biochemical markers of pancreatic function test. What is cholestasis? 2 + 2

GROUP – C

Answer any two questions from the following :

- 8 × 2
13. Name any two specific cardiac markers. Discuss how these markers are altered in myocardial infarctions. 2 + 6
14. Write any three important functions of kidneys. Name any two specific RFT markers. Write the clinical significance of serum urea level. 3 + 2 + 3

(4)

- 15. Classify the LFT markers according to five major function of liver. Why ALT is more specific marker than AST? Write the clinical significances of alkaline phosphatase. 3+2+3**
- 16. Write the procedure of venipuncture technique. Write the principle and procedure of blood glucose estimation. 3+2+3**

[Internal Assessment — 10 Marks]
