

M.Sc. 1st Semester Examination, 2023

**BIOMEDICAL LABORATORY SCIENCE
AND MANAGEMENT**

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. What do you mean by Maximums Acid Output (MAO) ?
2. What is 'Biochemical profile test' ?

3. What is atherosclerotic plaque ?
4. Name any two parameters of pancreatic function test.
5. Write the normal value of blood creatinine in adult male and female.
6. What is myoglobin ?

GROUP-B

Answer any **four** questions : 4 × 4

7. Discuss about the care and precaution that should be taken at the time of blood specimen collection. 4
8. Why sodium fluoride is used for the determination of blood glucose. Name any two pathological conditions of increased amylase levels. 3 + 1

9. Write a short note on screening of heavy metals. 4
10. What is 'obstructive jaundice' ? Why GPT level elevated in obstructive jaundices. 2 + 2
11. What is monochromator ? Write any two disadvantages of single beam spectrophotometer. 2 + 2
12. Write briefly about the preparation of serum specimen for biochemical analysis. 4

GROUP - C

Answer any two questions : 8 × 2

13. What is renal function test. Name the tests involved in renal function ? Write the clinical significance of blood creatinin levels. 2 + 3 + 3

14. Write the purpose of liver function test. Discuss about the alteration of CK-MB and Troponin I levels in myocardial infraction. $2 + 3 + 3$
15. Write briefly about 'functional test meal' in gastric function test. State the principle and procedure of estimation of blood cholesterol level. $3 + 2 + 3$
16. Write the procedure of preparation of protein-free blood filtrate. Write the normal value of blood potassium in adult male. What is GFR ? $4 + 2 + 2$

[Internal Assessment – 10 Marks]
