

**M.Sc. 3rd Semester Examination, 2022**

**BIOMEDICAL LABORATORY SCIENCE  
AND MANAGEMENT**

**PAPER – BML-303**

*Full Marks : 40*

*Time : 2 hours*

*The figures in the right hand margin indicate marks*

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

**A. Answer any *four* questions from the following :**

**4 × 2**

- 1. What is MAO ?**
- 2. What do you mean by dynamic function test ?**
- 3. What are the reasons of mousy smell and fruity smell of urine ?**

*( Turn Over )*

4. Why sodium fluoride anticoagulant is used for blood glucose estimation ?
5. Define 'Shy bladder syndrome'.
6. What is arthrocentesis ?

B. Answer any *four* questions from the following :

7. Discuss briefly the pentagastrin stimulation test. Name one condition of abnormal gastric function. 4 × 4
8. Write the clinical significance of serum creatinine. Write the normal level of serum creatinine in adult male. 3 + 1
9. Why diurnal variation considered at the time of specific blood sample analysis ? Write briefly protein free blood filtrate preparation. 2 + 2
10. Write the procedure of occult test of stool with its clinical significance.
11. What are amorphous crystals ? Give clinical significance.

12. How do you perform mucin clot test for the detection of any type of arthritis ?

C. Answer any two questions from the following :

8 × 2

13. Name any two important cardiac marker. Discuss the changes of the level of these two markers in myocardial infraction.

2 + (3 + 3)

14. Classify the liver function test with example.

Write briefly the bilirubin metabolism. 4 + 4

15. Discuss about different types of cast with its clinical significance.

8

16. How do you execute temperature correction for specific gravity detection of urine by urinometer ? Give the demerits of urinometric technique of specific gravity detection. Give an account on refractometry with its advantages.

2 + 2 + 4