

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

**BIOMEDICAL LABORATORY SCIENCE  
AND MANAGEMENT**

**PAPER – BML-301**

*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*

**GROUP—A**

**Answer any four questions :** 2 × 4

1. Differentiate agglutination and precipitation.
2. Define prozone phenomenon.
3. Define 'Titer'.

4. Write the unique characteristic of "CMN" group of bacteria.
5. What is the use of transport media in diagnostics ?
6. Why is sterility indicator used in autoclave ?

**GROUP-B**

Answer any **four** questions of the following :  $4 \times 4$

7. Write briefly the technique of complement fixation test with diagram.
8. Enumerate your idea about the nonspecific tests for syphilis.
9. Illustrate different direct and indirect agglutination tests.
10. Write a short note on bacterial biofilm.
11. What are the mechanisms of killing of microbes at high temperature ?

12. Discuss about the laboratory diagnosis of TB.

GROUP-C

Answer any two questions of the following :  $8 \times 2$

13. How does anti-CCP form in RA ? How do you detect anti-CCP ?  $4 + 4$
14. Give an account on WIDAL test with its clinical significance and interpretation of the results.  $6 + 2$
15. What is meant by "Thermal dimorphism" in fungi ? Write a short note on Streptococcal pharyngitis.  $3 + 5$
16. Discuss about the role of different chemical sterilants in the control of infections. Why should antibiotic solutions be filtere-sterilized before laboratory use ?  $6 + 2$
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