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PG (CBCS)
M.Sc. Semester- II Examination, 2023
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 203
(MEDICAL MICROBIOLOGY)

Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

Answer any **FOUR** from the following questions:

4×2=8

1. Define endospore along with an example of its bacterial source.
2. State the importance of 16S rRNA.
3. Name the spike proteins present in the HIV.
4. What is a dimorphic fungi? Give one example.
5. What is osmotrophy?
6. Why leishmaniasis is called Kala-azar?

GROUP-B

Answer any **FOUR** from the following questions:

4×4=16

7. Discuss the fate of animal cells after the infection of animal virus.
8. State the pathophysiology of *Staphylococcus* infection.
9. Discuss briefly the process of reverse transcription in relation to viral replication.
10. Describe different clinical features of candidiasis.
11. What is ova stool test? What kind of infection can be found by this test? 2+3
12. Mention various lab diagnosis strategies practicing for detecting mycotic infections.

GROUP-C

Answer any **TWO** from the following questions:

2×8=16

13. Discuss the antigenic structure, pathophysiology, and laboratory diagnosis of *Salomella* infection. 2+3+3
14. State the different antigens present in Hepatitis B virus. What is YMDD mutation of Hepatitis B? How do you diagnose this infection in the laboratory? 3+2+3
15. What do you mean by opportunistic fungi? Give examples. How are mycotoxins involved in emerging various diseases? 3+5
16. What do you mean by metastatic lesion? Explain the life cycle of *E. histolytica*? 2+6