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**PG CBCS**  
**M.SC. Semester-II Examination, 2021**  
**MEDICAL LABORATORY TECHNOLOGY**  
**PAPER: MLT 203**  
**(MEDICAL MICROBIOLOGY)**

**Full Marks: 40****Time: 2 Hours****Answer any FOUR questions of the following:****10X4=40**

1. Define protoplast and spheroplasts. What is the importance of 16S rRNA? How does the endospore form? Classify the bacteria based on their endospore location and size. 2+2+3+3
2. Briefly describe the life cycle of Ascomycetes. What is fungi imperfecti? What is YM shift? 6+2+2
3. How do you identify the fungal infection by staining procedure? Write a short note on Candidiasis. 4+6
4. Briefly describe the lysogenic life cycle of bacteriophage? What is prophage? What do you mean by superimmunity of the bacteria in terms of bacteriophage infection? 5+2+3
5. Write a short note chicken pox. State the name and function of each gene present in HIV genome. What is prion? 4+4+2
6. Briefly describe the antigenic structure and pathophysiology of *Staphylococcus* and *Salmonella* sp. 5+5
7. How is *Plasmodium vivax* transmitted? Describe briefly the asexual life cycle of *Plasmodium*. Write the prophylaxis and treatment of malaria. 1+5+2
8. What are the causes of trypanosomiasis? Why is it called the sleeping sickness? Describe the life cycle of Trypanosoma. 2+2+6

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