

The West Bengal University of Health Sciences
M.Sc. in Medical Microbiology July, 2022 Examination
(Old Regulation)

Paper : II

Full Marks : 100
Time : 3 hrs.

Attempt all questions

1. Classify the pathogenic bacteria which belong to the order spirochaetales. Write the laboratory diagnosis of primary syphilis. 4+6
2. What is pyrexia of unknown origin (PUO)? Enumerate the organisms causing PUO. Outline briefly the laboratory diagnostics of any one of them. 2+3+5
3. Describe the non culture techniques used for diagnosis of fungal infections. 10
4. What are the difference between actinomycetoma and eumycetoma. Describe briefly about causative agents and laboratory diagnosis of eumycetoma. 3+3+4
5. Enumerate the causative agents of neonatal meningitis. Give a brief account of pathogenesis and laboratory diagnosis of neonatal meningitis. 4+6
6. Define MDR tuberculosis and XDR tuberculosis. Discuss the rapid diagnostic methods available for diagnosis of a case of pulmonary tuberculosis. 4+6
7. Enumerate the bacteria causing diarrhea. Mention the diarrhea producing E coli. 4+6
8. Clarify streptococcus. Mention the different types of diseases causes by streptococcus pyogenes and their laboratory diagnosis. 4+3+3
9. Name the dimorphic fungi. Discuss the pathogenic lesions produced by one such fungus causing systemic mycosis and how will you proceed for diagnosis of such lesion. 4+6
10. Discuss the problems of ESBL producing bacteria causing hospital acquired infection and their laboratory detection. 4+6