

The West Bengal University of Health Sciences
M.D. (Microbiology) March- April, 2020 Examination

Paper: IV

Full Marks: 100
Time: 3 Hours

Attempt all questions

1. Classify antimicrobial based on PK-PD Parameters. Discuss in detail about PK-PD monitoring of antimicrobials. 5+5
2. Discuss MALDI-TOF MS and its role in molecular identification and diagnosis of infectious diseases. 4+3+3
3. Define quality assurance and describe in detail quality assurance programmes required for an ideal diagnostic microbiology laboratory . 10
4. Describe in detail how to formulate and implement hospital antibiotic policy in any medical institute . 10
5. Enumerate the agents of Bio-terrorism and how to detect them. 10
6. Discuss the merits and demerits of Real time Reverse Transcriptase PCR as compared to conventional end-point PCR. 10
7. Discuss Pneumococcal vaccine. 10
8. What is the principal behind 'One health' and what are the components ? 4+6
9. Discuss the current universal immunization schedule including vaccine name, dose, interval and route of administration. 10
10. Discuss the epidemiology and laboratory diagnosis of scrub typhus. 10