

MICROBIOLOGY
PAPER-IVTime: 3 hours
Max. Marks:100

MICRO/J/20/18/IV

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. Describe the infection control measures in the prevention of COVID-19. What are the revision in the biomedical waste management related to Covid- care centres? 6+4
2. Discuss bundle care approach to prevent device associated infections in healthcare settings. 10
3. With suitable examples, discuss the role of point of care (POC) testing. 10
4. Define probiotics. Describe their role in the management of bacterial infections. 2+8
5. Role of beta D glucan assay in the diagnosis of invasive fungal infections. 10
6. Describe the requirements to set up a biosafety level 3 laboratory. Draw the airflow in Class II A2 biosafety cabinet. 5+5
7. Future prospective and current application of proteomics in clinical microbiology. 10
8. Role of antibody avidity assay in infectious disease diagnosis. Explain with an example. 6+4
9. Role of Nanotechnology in diagnosis of infectious disease. 10
10. Enumerate Emerging and Re-emerging Viral infections identified as Public Health threats in India. Discuss current scenario of emerging Viral infections and possible reasons for emergence. 4+6
