MICROBIOLOGY

PAPER - IV

MICRO/D/16/18/IV

Time : 3 hours Max. Marks : 100 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.	Principle and applications of MALDI-TOF in clinical microbiology.	4+6=10
2.	Point of care tests.	10
3.	Principle and applications of reverse vaccinology.	6+4
4.	Define vaccine derived polio virus and the current strategies in global polio vaccination programme.	2+8
5.	Next generation sequencing.	10
6.	Enumerate mechanisms of Linezolid resistance and its laboratory detection.	6+4
7.	Define quasi species and their role in disease.	4+6
8.	Define biosensors and its application in Microbiology.	2+8
9.	New guidelines of Biomedical Waste Management Rules, 2016.	10
10.	Application of stem cell research in Microbiology.	10
