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MBE 510

III Semester M.Sc. Degree Examination, December 2018
MICROBIOLOGY (CBCS-PG-CGPA)
Techniques in Microbiology (Open Elective)

Time : 3 Hours

Max. Marks : 70

I. Answer **any three** of the following :

(3×10=30)

- 1) Describe the maintenance and preservation of pure cultures.
- 2) Describe the principle and applications of scanning and transmission electron Microscope.
- 3) Discuss on principle and applications of chromatography.
- 4) Describe the principles and methods of electrophoresis with applications.
- 5) Explain the types of media for culturing microorganisms.

II. Write a note on **any five** of the following :

(5×5=25)

- 6) Serial dilution.
- 7) Confocal microscopy.
- 8) Culture Collection Centres.
- 9) Streak plate method.
- 10) Micrometry.
- 11) Applications of chromatography.
- 12) Rotors.
- 13) Dark field microscopy.

P.T.O.



III. Write short notes on **any five** of the following :

(5×3=15)

- 14) Magnification.
 - 15) PFGE.
 - 16) Oil immersion.
 - 17) Iso-electric focusing.
 - 18) Membrane filtration.
 - 19) Biofilms.
 - 20) UV fluorescence.
 - 21) Hot air oven.
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