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MBS 408

I Semester M.Sc. Degree Examination, December 2018
MICROBIOLOGY (CBCS)
Microbial Methods and Techniques

Time : 3 Hours

Max. Marks : 70

I. Answer **any three** of the following : **(3×10=30)**

- 1) Write a detailed account on Bergey's manual of systematic bacteriology.
- 2) Describe principle and applications of gas chromatography.
- 3) Write a detailed account on culture media.
- 4) Describe the principle and types of centrifugation.
- 5) Discuss the principles and applications of electron microscopy.

II. Answer **any five** of the following : **(5×5=25)**

- 6) Phase contrast microscope.
- 7) SPC.
- 8) Diversity of microorganisms based on carbon requirements.
- 9) TLC.
- 10) X ray crystallography.
- 11) 2 D PAGE.
- 12) Colony characters of bacteria.
- 13) Magnification power.

P.T.O.



III. Answer **any five** of the following :

(5×3=15)

- 14) Dark field microscopy.
 - 15) Anaerobic respiration.
 - 16) Haemocytometer.
 - 17) Principle and applications of HPLC.
 - 18) Western blotting technique.
 - 19) Bacterial smear preparation.
 - 20) IEF.
 - 21) Negative stains.
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