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BOH 403

First Semester M.Sc. Degree Examination, December 2018
BOTANY (CBCS Scheme)
Microbiology (Hard Core)

Time : 3 Hours

Max. Marks : 70

I. Answer **any three** of the following (**Each** answer **not** exceeding 5 pages) : **(3×10=30)**

- 1) Write a detailed account of classification of major groups of microorganisms.
- 2) Describe the contributions of Louis Pasteur and Robert Koch for the early development of microbiology.
- 3) Write an account on aerobic respiration in bacteria.
- 4) Explain the replication in viruses.
- 5) Describe different types and molecular basis of mutation.

II. Write short notes on **any six** of the following (**Each** answer **not** exceeding 3 pages) : **(6×5=30)**

- 6) Phase contrast microscope
- 7) Paul Ehrlich
- 8) Para sexual cycle in fungi
- 9) Nutritional classification of microorganisms
- 10) Gene mapping
- 11) Branches of microbiology
- 12) Mycoplasma
- 13) F⁺ plasmid.

P.T.O.



III. Write short notes on **any five** of the following (**Each** answer **not** exceeding
1 page) : **(5×2=10)**

- 14) Joseph Lister
 - 15) Cathode ray tube
 - 16) Micronutrients
 - 17) Competence factor
 - 18) Flagella
 - 19) Binary fission
 - 20) Actinomycetes.
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