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**BOS 456**

**II Semester M.Sc. Degree Examination, September/October 2022**  
**(CBCS)**  
**BOTANY**  
**Applied Microbiology (Soft Core)**

Time : 3 Hours

Max. Marks : 70

- I. Answer **any three** of the following. (**Each** answer **not** exceeding 5 pages). **(3×10=30)**
- 1) Discuss nutrients required for aerobic bacteria. Add a note on nutritional types of bacteria.
  - 2) Write an essay on mycotoxin and mycotoxicoses.
  - 3) Discuss the kinetics of microbial growth curve.
  - 4) Explain the process of interactions between plant roots and fungi leading to mycorrhizae.
  - 5) Describe the structure and functions of different classes of immunoglobulins.
- II. Write notes on **any six** of the following. (**Each** answer **not** exceeding 3 pages). **(6×5=30)**
- 6) Anaerobic bacteria.
  - 7) Batch culture.
  - 8) Enterotoxins.
  - 9) Human microbiome.
  - 10) Moist sterilization.
  - 11) Complement fixation.
  - 12) Radial immunodiffusion.
  - 13) Entry of fungal plant pathogens.

**P.T.O.**



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

14) Parasitism.

15) Vitamins.

16) Agglutinins.

17) ELISA.

18) Hartig net.

19) Candida albicans

20) Aflatoxin.

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