

M.Sc.(Biotechnology) (CBCS Pattern) Semester - I
PSBIT102 - Paper-II : Microbiology

P. Pages : 1

Time : Three Hours



GUG/S/23/11147

Max. Marks : 80

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1. Give detail account on the contribution of various scientists in the development of microbiology. 16

OR

- a) Discuss about the process of endospore formation. 8
- b) Give the information about structure and function of flagella in detail. 8

2. Discuss principles and applications of SEM. 16

OR

- a) Give detail account on differential staining. 8
- b) Discuss about various types of stains. 8

3. Discuss various physical methods of sterilization in detail. 16

OR

- a) Discuss about the various types of biological complex media. 8
- b) Give the information about bacterial growth curve. 8

4. Describe general characteristics, reproduction and applications of Algae in biotechnology. 16

OR

- a) Discuss about lysogenic life cycle of virus multiplication. 8
- b) Discuss about general characters and structures of viruses. 8

5. Solve the following.

- a) Give the comparison between prokaryotes and eukaryote cell. 4
- b) Discuss about the endospore staining. 4
- c) Describe any two methods of chemical sterilization in brief. 4
- d) write a note on viroids. 4
