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Roll No.....

Total No. of Unit : 04
Total No. of Printed Pages : 03

Code No. : 01/204

First Semester Examination, Dec. 2018

M.Sc. BOTANY

Paper - II

MICROBIOLOGY, PHYCOLOGY AND MYCOLOGY

Time : 3 Hrs. **Max.Marks : 80**

- Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.
  Part C (Short answer type) of each question will be answered in 200-250 words.
- D (Long answer type) of each question should be answered within the word limit 400-450.

Unit - I

Q.1 A What are lysogenic bacteria. **(2)**

Q.1 B Explain head structure of T_4 bacteriophage. **(2)**

Q.1 C Explain the difference between Lytic and Lysogenic Phase. **(4)**

OR

Describe the different types of spores found in Algae.

Q.1 D What is transduction? Describe types of transduction in detail. **(12)**

OR

Describe the structure, replication and kinds of viruses in detail.

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Unit - II

Q.2 A What reserve food material is stored in Chlorophyceae and Cyanophyceae. **(2)**

Q.2 B Where the bladder wrack is found? **(2)**

Q.2 C What is diplobiontic life cycle? **(4)**

OR

Describe cystocarp of Batrachospermum.

Q.2 D Describe sexual reproduction in Chara. **(12)**

OR

Give a detailed account of reproduction in Xanthophyceae.

Unit - III

Q.3 A Explain four main characteristics of fungi. **(2)**

Q.3 B What do you mean by wilting? **(2)**

Q.3 C Difference between Parasitic and Saprophytic fungi. **(4)**

OR

Explain the structure of flagella of fungi.

Q.3 D Write a short essay on Heterothallism. **(12)**

OR

Describe the various modes of nutrition in fungi by giving suitable examples.

Unit - IV

Q.4 A Why Ascomycetes are called "Sac fungi"? **(2)**

Q.4 B What is a myxamoeba? **(2)**

Q.4 C Describe the cleistothecium of Phyllactinia. **(4)**

OR

Explain the stages in the germination and development of smut spore.

Q.4 D Describe the structure and reproduction of Achlya, with the help of diagrams. **(12)**

OR

Give an account of life cycle of Uromyces.

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