

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 T₄ 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.

P.T.O.

(2)

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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.

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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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