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(Printed Pages 4)

Roll No. _____

19/590

M.Sc. First Semester Examination, 2019

BOTANY

Second Paper

(Mycology)

Time : Three Hours

Maximum Marks : 100

Note : Answer **five** questions in **all**. Short answer type **Question No.1** carrying **40** marks is **compulsory**. Answer **one** question carrying **15** marks from each unit.

Note : The answers to short questions should not exceed 200 words and the answers to long questions should not exceed 500 words.

P.T.O.

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1. Write short notes on the following: $4 \times 10 = 40$

- (i) Sclerotia
- (ii) Edible fungi
- (iii) Rhizomorph
- (iv) Parasexuality in fungi
- (v) Heteroecious fungi
- (vi) Nuclear Division in Fungi
- (vii) Appresoria
- (viii) Types of Septa in fungi
- (ix) Fungi imperfecti
- (x) Clamp connection

Unit - I

2. Give an account of the modes of nutrition in fungi with suitable examples. 15

OR

Describe the range of thallus organisation in fungi with suitable examples and diagram.

15

Unit - II

3. (i) Comment on following fossil fungi.
(ii) Heterothallism in fungi. $7\frac{1}{2} \times 2 = 15$

OR

Give an account of the economic importance of fungi. 15

Unit - III

4. Give the systematic position with characteristic features of the following fungi (any three) $3 \times 5 = 15$

- (i) **Stemonitis**
- (ii) **Pilobolus**
- (iii) **Saprolegnia**
- (iv) **Pythium**
- (v) **Sclerospra**

OR

Name the fungus causing 'Late Blight of Potato, and describe the symptoms, disease cycle and control measures of disease. 15

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Unit - IV

5. (i) Describe the methods of asexual reproduction in yeasts. 7½
- (ii) Describe the methods of reproduction in class Deuteromycetes. 7½

OR

Give a detailed account of life cycle with suitable diagram of a fungus causing "Black Rust of Wheat". 15