

Roll No.

91047

B. Sc. Bio-Technology
1st Semester w. e. f. 2012-13.
Examination – November, 2019

PLANT DIVERSITY I AND SO PROSPECTING

Paper : 51- 102

Time : Three Hours] [Maximum Marks : 40

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions in all. Question No. 1 is *compulsory* and attempt remaining *four* other questions selecting at least *one* from each Unit.

- 1. Compulsory question :** Answer the following questions in brief : 2 x 5 = 10
 - Give a botanical name of the edible mushroom.
 - What are lichens ? What is their ecological importance ?
 - What do you mean by Mycorrhiza ?

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P. T. O.

- What is the difference between gametophyte and sporophyte.
- Give the name of the casual organism of citrus canker disease ?

UNIT – I

- Briefly answer the following questions : 7.5
 - Pigments in green and red algae
 - Nannandrous Odogonium
- Give a graphic representation of the life cycle in Polysiphonia. 7.5

UNIT – II

- Mention characteristic features of Fungi along with their economic importance. 7.5
- Briefly explain the following :
 - Nutrition in fungi
 - Sexual reproduction in Saccharomyces

UNIT – III

- Write the casual organisms, symptoms and control measures of the following plant diseases : 7.5
 - Late blight of potato
 - Red rot of sugarcane
- Briefly explain the following :
 - In what respects do lichens differ from and agree with the fungi ?
 - Differentiate between rusts and smuts.

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UNIT – IV

8. Draw well - labelled diagrams of : 7.5
(a) V. S. of Marchantia thallus through a genema cup
(b) L. S. of Funaria capsule
9. Give a graphic representation of the life cycle in Funaria. 7.5

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