

Bachelor of Science (B.Sc.-I) First Semester
BO-02 - Botany Paper-II
(Diversity of Fungi, Lichens, Bryophytes and Plant Pathology)

P. Pages : 2

Time : Three Hours



GUG/W/18/1201

Max. Marks : 50

- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labelled diagrams wherever necessary.

1. Give an account of life history of Albugo. 10
OR
write notes on
a) Sexual reproduction in Penicillium. 5
b) Puccinia on Barberry plant. 5
2. Give illustrated account of sporophyte (sporogonium) of Anthoceros 10
OR
Write notes on:
a) Brown spot of Rice. 5
b) Loose smut of wheat. 5
3. Write short notes on.
a) Mastigomy cotina 2½
b) Asexual reproduction in Penicillium. 2½
c) Gametophyte of Bryophyta. 2½
d) Symptoms of tobacco mosaic disease 2½
OR
e) Zygomycotina 2½
f) Uredial stage of Puccinia. 2½
g) Economic importance of Bryophyta. 2½
h) Symptoms of Bacterial Blight of cotton. 2½

4. Write short notes on:
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| a) Asexual Reproduction in <u>Mucor</u> . | 2½ |
| b) Asexual reproduction in <u>cercospora</u> . | 2½ |
| c) V. S. <u>Riccia</u> thallus (diagram only) | 2½ |
| d) Symptoms of Red rat of sugarcane. | 2½ |

OR

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|---|----|
| e) Sexual reproduction in <u>Mucor</u> . | 2½ |
| f) Economic importance of Fungi. | 2½ |
| g) L. S. female branch (Archegoniophore) of <u>Funaria</u> . (diagram only) | 2½ |
| h) Control measures of Red rat of sugarcane. | 2½ |
5. Write **any ten** questions in one or two lines only (diagrams are not necessary)
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|-------------------------|---|
| a) White rust. | 1 |
| b) Black mould. | 1 |
| c) Heterothallism. | 1 |
| d) Gibberella sp. | 1 |
| e) Fruticose lichen | 1 |
| f) Erythrin. | 1 |
| g) Ostiole. | 1 |
| h) Venter. | 1 |
| i) Calyptra. | 1 |
| j) Necrosis. | 1 |
| k) Stunting. | 1 |
| l) Resistant varieties. | 1 |
