

C065

Total Pages : 3

Roll No.

MBOT-506

Biology and Diversity of Fungi

M.Sc. BOTANY (MSCBOT-20)

2nd Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 40

Note : This paper is of Forty (40) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Ten (10) marks each. Learners are required to answer any Two (02) questions only.

(2×10=20)

1. Describe the ultra structure of a fungal cell.
2. Explain various modes of vegetative and asexual reproduction in fungi with the help of labelled diagrams.

3. Write briefly about the somatic structure and sexual reproduction of members of Ascomycotina.
4. Explain the fungi as biocontrol agents.
5. Briefly write about the reproduction in Deuteromycotina.

SECTION-B
(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Five (05) marks each. Learners are required to answer any Four (04) questions only. (4×5=20)

1. Write a note on Biofertilizers.
2. Describe the following :
 - (a) Hyphal growth.
 - (b) Nectrotrophs & Biotrophs.
3. Discuss the chemical composition of fungal cell wall.
4. Describe different types of nutrition in fungi in detail.
5. Write a short note on any *two* :
 - (a) Chlamydo-spore.
 - (b) Applications of Citric acids.
 - (c) Plant Growth Promoting Rhizobacteria (PGPR).

6. What are Mycorrhiza ? Explain the advantages of mycorrhizal application to the field crops.
 7. Explain about heterothallism.
 8. Discuss briefly about fungal food.
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