TDC (CBCS) Even Semester Exam., 2019

BOTANY

(2nd Semester)

Course No. : BOTHCC-201T

(Mycology and Phytopathology)

Full Marks : 50
Pass Marks : 20

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *two* of the following : 2×2=4

(a) Write two differences between plants and fungi.

(b) What do you mean by holocarpic and eukarpic thallus?

(c) What is symbiotic fungi?

2. *(a)* Give an account of chemical composition of fungal cell wall. 6

Or

(b) Describe the classification of fungi as proposed by Ainsworth. 6

UNIT—II

3. Answer any *two* of the following : 2×2=4

(a) What do you mean by heterothallism?

(b) Write the name of different types of fruiting bodies in slime moulds.

(c) Distinguish between uredospores and teleutospores.

4. *(a)* Give an account of the life cycle in *Saccharomyces* species with example. 6

Or

(b) Give an account of various types spores formed by *Puccinia graminis tritici* and their development. 6

UNIT—III

5. Answer any *two* of the following : 2×2=4

(a) What is a soredium and an isidium?

(b) What is an arbuscular mycorrhiza?

(c) Write a note on crustose of lichen.

6. *(a)* With suitable diagram, describe the different growth forms and structures of lichen. 6

Or

(b) What are mycorrhizae? Write the significance of mycorrhizal association. 2+4=6

UNIT—IV

7. Answer any *two* of the following : 2×2=4

(a) Name four species of edible mushrooms.

(b) What is mycotoxin? Give examples.

(c) What do you mean by biological control?

8. *(a)* Discuss the application of fungi in food industry. 6

Or

(b) Write a note on the role of fungi in biotechnology. 6

UNIT—V

9. Answer any *two* of the following : 2×2=4

(a) What do you mean by quarantine?

(b) Write the symptoms of citrus canker disease.

(c) What is necrosis? State the characters of blight symptom.

10. *(a)* Give an account of host-pathogen relationship. 6

Or

(b) Discuss the symptoms, causal agent, disease cycle and control measures of early blight of potato disease. 1+1+2+2=6

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