



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examinations 2021

(Under CBCS Pattern)

Semester - II

Subject: BOTANY

Paper : C 3-T & P

Mycology and Phytopathology

Full Marks : 60 (Theory-40 + Practical-20)

Time : 3 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

[Theory]

Group - A

Answer **any two** of the following:

2×15=30

1. Write a brief note on heterothallism and sexuality in fungi. Discuss the spore dispersal mechanism in fungi with suitable diagram. 7+8=15
2. Explain the general characteristics of fungi. Write its affinities with plants and animals. Differentiate between Ascomycota and Basidiomycota.

5+5+5=15

3. Describe the symptoms, disease cycle and control measures of Black stem rust of wheat. Name the causal organism.

13+2=15

4. Define Mycotoxins. Write the role of fungi on biological control as Mycofungicides, Mycoherbicides, Mycoinsecticides and Myconematicides.

2+13=15

Group - B

Answer *any one* of the following:

1×10=10

5. Describe the different types of lichens with examples. State the ecological and economic importance of lichens.

5+5=10

6. Write a short note on disease triangle. Describe the causal organism and symptoms of Citrus canker and White rust of crucifers.

5+5=10

[Practical]

Answer *any one* of the following:

1×20=20

7. Draw and label the different thallus organization of fungi.
8. Draw and describe the different thallus structures and reproductive organ of lichen.
9. Draw and label the different parts of the fruiting body of ascocarp. Write the identifying character of *Rhizopus*.
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