



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examination 2022

(Under CBCS Pattern)

Semester - II

Subject : BOTANY

Paper : C 3-T

Mycology and Phytopathology

Full Marks : 40

Time : 2 Hours

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

The figures in the margin indicate full marks.

1. Answer any **four** of the following questions : 5×4=20
- (a) What are the different types of thallus found in the chytrids? Explain with diagram and examples. 5
- (b) Give an example of a genus with inoperculate zoospore. 4+1
- (c) Write a short note on different types sexual fruiting bodies of Ascomycota. What are the different sub-classes of Ascomycota on the basis of fruit bodies? 5
- (d) Write a short note on cell wall structure of fungi. What is Brachymeiosis? 4+1
- (e) Diagrammatically represent the life cycle of *Puccinia*. 4+1
- (f) What is somatogamy? What is rhizomorphy? 3+2

P.T.O.

(g) Write down the role of quarantine in plant disease management. What is biological control? 3+2

(h) Write a short note on economic and ecological importance of lichen? 3+2

2. Answer any *two* of the following questions : 10×2=20

(a) Diagrammatically represent the disease cycle of Black stem rust of wheat.

(b) Give the characters of Deuteromycetes and Myxomycetes.

(c) (i) Explain the role of fungi in fermentation industries.

(ii) Write a note on host pathogen interaction. 5+5

(d) Give the economic importance of fungi with respect to agriculture and food.

(e) (i) Briefly describe the role of environment in plant disease progression.

(ii) Write down the disease cycle and control measure of TMV disease of Tobacco plant. 5+(3+2)
