

2020

BOTANY — HONOURS

Paper : CC-2

Full Marks : 50

The figures in the margin indicate full marks.

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

1. Answer **any five** questions from the following : 2×5
- (a) What is eucarpic fungus?
 - (b) What is plectenchyma?
 - (c) What is 'Hartig Net'?
 - (d) Define Foliose Lichen.
 - (e) Define endemic disease with example.
 - (f) Distinguish between Pathogenecity and Pathogenesis.
 - (g) What is Pathotoxin?
 - (h) What is causal complex?
2. Answer **any two** of the following :
- (a) Discuss the role of mycorrhiza in agriculture. 5
 - (b) State the role of phytoalexin in plant defence. 5
 - (c) What is parasexuality? Name the discoverer of parasexual cycle. Mention the sequence of events of parasexual cycle. 1+1+3
3. Answer **any three** of the following :
- (a) (i) Name the different types of sexual spores found in fungi.
 - (ii) Discuss the different types of sexual reproduction observed in fungi with suitable examples. 2+8
 - (b) (i) Discuss the mode of asexual reproduction of *Synchytrium* with diagram.
 - (ii) Give the internal structure of fruit body of *Agaricus*. 6+4
 - (c) (i) Give a brief account of Integrated Disease Management.
 - (ii) State the symptoms of stem rot of jute. Mention its casual organism. 6+(3+1)

Please Turn Over

- (d) (i) Mention the general characteristics of Myxomycota and Ascomycota.
(ii) State the ecological significance of lichen. (2½+2½)+5
- (e) (i) Name the causal agent of late blight of potato.
(ii) Write down the symptoms of the disease.
(iii) Describe its disease cycle and control measures. 1+2+(4+3)
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