

2018

BOTANY

(Major)

Paper : 5.2

(Plant Pathology and Lichen)

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following questions : 1×7=7

- (a) Which penetrating structures are formed by fungal pathogens?
- (b) What is chlorosis?
- (c) Who discovered Bordeaux mixture?
- (d) What are necrotrophs?
- (e) Which disease was responsible for Irish famine?

- (f) What is the most destructive disease of sugarcane?
- (g) Write the name of a reindeer moss.

2. Write brief notes on the following : 2×4=8

- (a) Systemic infection
- (b) Primary inoculum and secondary inoculum
- (c) Crop rotation
- (d) Disease forecasting

3. Write briefly on any *three* of the following : 5×3=15

- (a) Koch's postulates
- (b) Pathotoxin and vivotoxin
- (c) Anthropolchory
- (d) Hypersensitive response
- (e) Soil fumigation
- (f) Classification of lichen

(3)

4. Give an account of dissemination and transmission of plant pathogens. 10

Or

Write notes on the following : 5×2=10

(a) Yellow mosaic of bhindi

(b) Leaf spot disease of cabbage

5. What is an epidemic? Discuss the factors related to the development of an epidemic.

2+8=10

Or

Give an account of the symptoms, causal organism, disease cycle and control measures of black stem rust of wheat.

2+2+3+3=10

6. Discuss the symptoms, causal organism, disease cycle and control measures of grey blight of tea.

10

Or

Give an illustrated account of methods of reproduction in lichens.

10
