

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 :  $2 \times 4 = 8$

(a) Systemic infection

(b) Primary inoculum and secondary inoculum

(c) Crop rotation

(d) Disease forecasting

3. Write briefly on any *three* of the following :

$5 \times 3 = 15$

(a) Koch's postulates

(b) Pathotoxin and vivotoxin

(c) Anthropochory

(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

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