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: $1 \times 7 = 7$
 - (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?)			

- Write the name of a reindeer moss.
- Write brief notes on the following: $2 \times 4 = 8$
 - (a) Systemic infection
 - Primary inoculum secondary and inoculum
 - Crop rotation
 - Disease forecasting
- 3. Write briefly on any three of the following:

 $5 \times 3 = 15$

- Koch's postulates
- Pathotoxin and vivotoxin
- Anthropochory
- Hypersensitive response
- Soil fumigation
- Classification of lichen

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

Or

Write notes on the following: 5×2=10

- Yellow mosaic of bhindi
- 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 10 reproduction in lichens.

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