2014

BOTANY S logissooid

(Major) as says as well as

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

- Name one ancient Indian holy book in (a) which reference to plant diseases and their control devices are made.
- Who is regarded as the Founder of (b) Mycology and Plant Pathology' in India?
- Which crop plant disease is directly (c) related to the famous famine occurred in Ireland between 1845 and 1847?
- (d) What is chlorosis?

- (e) What is the causal organism of canker disease of citrus plants?
- (f) Name one fungal species that used as biocontrol agent.
- (g) What are soredia?
- 2. Answer the following questions: 2×4=8
 - (a) What is the causal organism of powdery mildew of pea?
 - (b) Differentiate between primary inoculum and secondary inoculum.
 - (c) How are root-cap border cells related to the infection in soil-borne diseases?
 - (d) What are the shot holes in necrotic symptoms?
- **3.** Write short notes on any three of the following: 5×3=15
 - (a) Penetration of pathogens to host
 - (b) Host-specific toxins
 - (c) Soil nutrients and disease development
 - (d) Quarantines
 - (e) Integrated Disease Management (IDM)

4. Give an account of symptoms, causal organism, etiology and control of late blight of potato.

2+2+2+4=10

Or

What are the rust diseases reported from India? Discuss the symptoms, etiology and control of black rust disease of wheat.

3+2+21/2+21/2=10

5. Give an account of cultural and biological methods of plant disease control.

Or

Write notes on the following:

5×2=10

- (a) Gray blight of tea
- (b) Tobacco Mosaic Virus (TMV)
- **6.** Give an account of ecological and economic importance of the Lichens.

Or

Give an illustrated account of methods of reproduction met in Lichens.
