

7. Write down the causal agents, symptoms, epidemiology, disease cycle and control measures of following plant diseases :
- (a) Black stem rust of wheat
 - (b) Late blight of potato.
8. Enumerate the symptoms, causal agents and control measures of following diseases :
- (a) Bacterial blight of rice
 - (b) Downy mildew of Bajara
 - (c) False smut of rice
 - (d) Bunchy top of banana.

Exam. Code : 107404
Subject Code: 1767

B.Sc. (Bio Technology) 4th Semester
BOTANY-C
Paper - BT-2

Time Allowed—2 Hours] [Maximum Marks—40

Note :— There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

1. (a) Differentiate between transpiration and guttation.
(b) How are certain plants able to survive under sub-zero temperature?
2. Describe the concept of water potential along with its components.
3. (a) Write a brief note on 'Kranz anatomy'.
(b) Describe the mechanism of Hatch-Slack Cycle. Give its importance.
4. What are photosystems? Give composition and functions of photosystems found in plants.
5. Discuss in detail about phytoalexins and PR-proteins.
6. Define epidemiology. Briefly explain the classification of plant diseases with suitable examples.