Exam. Code : 107404 Subject Code : 2242

B.Sc. Bio-Technology Semester-IV

BOTANY-C

Paper-BT-2

Time Allowed—3 Hours] [Maximum Marks—40

Note : Attempt ALL the Sections.

SECTION-A

Note : Attempt ALL the parts. Answer to any part should not exceed 1/3 of a page.

- What are the physiological adaptations found during cold 1. stress?
- Define transpiration. 2.
- Name the causal agent and control measures of TMV of 3. potato?
- Define Crop rotation. 4
- 5. Write down the role of late embryogenesis abundant proteins.
- What are phytoalexins? 6.
- Name the secondary host of Puccinia graminis tritici. 7.
- 8. Define heat shock proteins. 8×1=8

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(Contd.)

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SECTION-B

- Note: Attempt any FIVE questions. Answer to any question should not exceed two pages.
- Give a brief account of osmosis. 1
- Describe briefly the dehydrins. 2.
- Explain briefly the causal agent and disease cycle of loose 3. smut of wheat.
- Briefly describe the disease resistance host pathogen 4. interaction
- Describe heat shock proteins. 5.
- Briefly explain the mode of transmission of plant diseases. 6.
- Write down the various physiological adaptations made 7. by plants in respect of heat stress.
- Explain briefly the disease cycle of Bunchy top banana. 8.

5×4=20

SECTION-C

- Note : Attempt any TWO questions. Answer to any question should not exceed five pages.
- Write short notes on : 1
 - (a) Transpiration and its role in plants
 - (b) Water potential.
- Write a detailed note on Black stem rust of wheat with 2. respect of its causal agents, symptoms, disease cycle and their control measures.
- What are the control methods used to exclude the pathogens 3. from the host ?
- Describe in detail the role of heat shock proteins in stress 4 2×6=12 physiology.

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