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Class – B.Sc. (Biotech) 4th Sem.

Subject – Botany-C

Paper – BT-2

Time Allowed : 3 Hours

Maximum Marks : 40

SECTION-A

Attempt all the questions. Answer to any question should not exceed 1/3 of Page. (8 × 1 = 8)

1. Name causal organism of False smut of Rice.
2. What are dehydrins?
3. Define phytoalexins.
4. What are PR Proteins?
5. Give an example of Late embryogenesis abundant Protein.
6. Define vapour Pressure.
7. Write two control measures of yellow vein mosaic of bhindi.
8. Define Epidemiology.

SECTION-B

Attempt any five questions. Answer to any question should not exceed 2 pages. (5 × 4 = 20)

1. Describe Heat Shock Proteins.
2. Write a detailed account of disease cycle and control measures of Late blight of Potato.
3. Give role of Late embryogenesis abundant Proteins.
4. Briefly explain phytoalexins by giving examples.

5. Describe role of different osmolytes in stress Tolerance.
6. Describe water Potential and its components.
7. Why Transpiration is called necessary evil in Plants.
8. Briefly describe mode of Transmission of Plant Diseases.

SECTION-C

Attempt any two questions. Answer to any question should not exceed 5 pages. (2 × 6 = 12)

1. Describe molecular adaptations in Plants with respect to salt and cold stress.
2. Give detailed account on Disease Resistance Host Pathogen Interaction.
3. Write a detailed note on Black stem Rust of wheat with respect to its causal agent, symptoms, disease cycle and their control measures.
4. Write short notes on :
 1. DPD
 2. Classification of Plant Diseases.
