www.a2zpapers.com

Exam. Code : 107404 Subject Code : 2142

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

Time Allowed-3 Hours]

[Maximum Marks-40

Note :- Attempt ALL the Sections.

SECTION-A

Note :— Attempt ALL the raris. Answer to any part should not exceed 1/3 of a page. $8 \times 1=8$

- 1. (a) What are osmolytes ?
 - (b) What is stress physiology?
 - (c) Name the causal organism of clack stem rust of wheat.
 - (d) Define water potential.
 - (e) Write down the causal organism of Early and late blight of potato.

1

- (f) What are dehydrins ?
- (g) Define epidemiology ?
- (h) Define plant pathology.

3127(2416)/QFV-9-3987

(Contd.)

www.a2zpapers.com

www.a2zpapers.com

SECTION-B

Note :— Attempt any FIVE questions. Answer to any question should not exceed 2 pages. 5×4=20

- 1. Why transpiration is called necessary evil in plants ?
- 2. Buefly explain the classification of plant diseases.
- 3. Write a short note on downy mildew of Bajra.
- 4. Explain the role of different osmolytes in stress tolerance
- 5. Give the role of late embryogenesis abundant proteins.
- 6. Briefly explain the components of water potentials.
- Write a detailed account of disease cycle and control measures for TMV of po ato.
- 8. Describe PR proteins.

SECTION- C

Note :- Attempt any TWO questions. Answer to any question should not exceed 5 pages. 2×6=12

- 1. Describe the molecular adaptations in plants with respect to salt and cold stress ?
- 2. Describe in detail the role of different osnicilytes in stress tolerance.
- 3. Give a detailed account of early blight of potato dise: se including its causal agent, symptoms, disease cycle and its control measures.
- 4. Give a detailed account on disease resistance host pathogen interaction.

3127(2416)/QFV-9-3987

2

600

www.a2zpapers.com