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Sr. No. of Question Paper: 1533 E

Unique Paper code 217477

Name of the course: B.Sc. (App. Life Sciences) Agrochemical and Pest Management

Name of the Paper: 14- Agricultural botany, Plant Pathology and Allelopathy

Semester: IV

Serial No. of Question paper:

Duration: 3 hrs

Max. Marks: 75

**Important Instructions:**

1. Write your roll number immediately on the top after receiving this question paper
2. Attempt ANY FIVE questions.
3. All questions carry equal marks.

Q.1 Define the following:

10 x 1<sub>1/2</sub>=15

- a) Disease
- b) Facultative parasite
- c) Causal organism
- d) Photoperiodism
- e) Heteroecious fungus
- f) Seed viability
- g) Senescence
- h) Phytoalexins
- i) Phytohormone
- j) Yield

Q.2. Write short notes on any three:

3 x 5=15

- a) Late Blight of potato
- b) White rust of crucifers
- c) Tobacco mosaic disease

- d) Growth retardants
- e) Allelopathy

Q.3. What is seed dormancy? Discuss the various factors causing dormancy of seeds. Comment briefly on the methods for breaking it. 15

Q.4. Give an account of any three: 3 x 5=15

- a) Ethylene and fruit ripening
- b) Source-sink relationship
- c) Concept of phytotronics
- d) Crop modeling

Q.5. Comment on causal organism, symptomatology and control measures of any two bacterial diseases. 15

Q.6. Differentiate between any three: 3 x 5=15

- a) Uredospore and teleutospore
- b) Downy mildews and Powdery Mildews
- c) Rust and Smut
- d) Stratification and Scarification
- e) Long day plants and short day plants

Q. 7. Briefly describe any three of the following: 3 x 5=15

- a) Transmission of viruses
- b) 2-4 D
- c) Principle of growth analysis
- d) Host-parasite interaction
- e) Bolting in plants