

Roll No:

Serial No. of Question paper: 6830 D

Unique Paper code: 107477

Name of the Paper: 14- Agriculture Botany and Plant Pathology

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

Semester: IV

Duration: 3 hrs

Max.Marks: 75

Important Instructions:

1. Write your roll number immediately on the top after receiving this question paper
2. Attempt **five** questions in all.
3. Question No. 1 is **COMPULSORY**.
4. Attempt all parts of the question together.

Q.1 (a) Give the example(s) of the following:

1x7=7

- i. Hormone which promote fruit ripening
- ii. Hormone which is used for rooting
- iii. Hormone which promotes apical dominance
- iv. Hormone is involved in shoot elongation
- v. Hormone which is commercially used for the eradication of weeds
- vi. Hormone which promotes senescence
- vii. An example of stress hormone

(b) Write short notes on **any four** of the following:

4x3=12

- a. Classification of diseases
- b. Host-plant interaction
- c. Photoperiodism
- d. Role of Ethylene
- e. Vernalization
- f. Hormonal regulation of seed germination

(c) Explain **any two** of the following:

2x4=8

- i. Seed dormancy
- ii. Types of plant disease symptoms

- iii. Seed vigor
- iv. Cryptochrome

Q.2 (A) Name the causal organism and describe disease cycle, prevention and control of Rust of wheat diseases. 12

OR

(B) Name the causal organism and describe disease cycle, prevention and control of Citrus canker diseases. 12

Q.3 (A) What is seed dormancy. Explain mechanism and methods for breaking seed dormancy. 12

OR

(B) Explain the role of hormones in plant growth and development. 12

Q.4 (A) Name the causal organism and describe disease cycle, prevention and control of Tobacco mosaic diseases. 12

OR

(B) Name the causal organism and describe disease cycle, prevention and control of Late blight of potato diseases.

Q.5 Write a note on **any three**.

4x3=12

- I. Transmission and control of plant diseases.
- II. Allelopathy
- III. Phytochromes
- IV. Cryptochromes
- V. Downy mildews