

5. (a) Discuss the advantages of integrated pest management. (5)
- (b) What is biofertilizer? Explain its importance. (5)
- (c) Discuss the role of light on the germination of seeds. (5)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 6039 H

Unique Paper Code : 2164001207

Name of the Paper : Agricultural Botany and Weed Science

Name of the Course : **B.Sc. (H.) Botany – Generic Elective**

Semester : II

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **four** questions in all including Question No. 1, which is compulsory
3. All Parts of a questions to be attempted together.
4. Draw diagrams wherever required.

1. (a) Define (**any five**) : (2×5=10)

(i) Photomorphogenesis

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- (ii) Herbicide
- (iii) Disease triangle
- (iv) Phytotronics
- (v) Photoblastic
- (vi) Seed dormancy

(b) Write one word for the following (**any five**) :
(1×5=5)

- (i) A growth hormone that stimulates germination of seed.
- (ii) The response of plant to the period of day/night.
- (iii) The process in which the shoot apex of a plant grows faster and prevent the growth of lateral buds.
- (iv) A unwanted plant that inhibits the growth of desirable plants in a field.
- (v) A gaseous plant hormone.
- (vi) Example of a long day plant.

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2. Write short note on (**any three**) : (5×3=15)

- (a) Invasive plants
- (b) Seed vigour
- (c) Vernalization
- (d) Physiology of fruit ripening

3. Differentiate between the following (**any five**) :
(3×5=15)

- (i) Short day and Long day plant
- (ii) Stratification and Scarification
- (iii) Growth promoters and Growth retardants
- (iv) Pr and Pfr
- (v) Biological and Chemical control of weeds
- (vi) Epigeal and Hypogeal seed germination

4. (a) Give the chemical nature, discovery and physiological effects of cytokinin. (9)

(b) Discuss the mechanism of senescence in detail. (6)

P.T.O.