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Your Roll No.

8148

B.Sc. Prog./II

BS

ACP-201—Agricultural Botany,

Plant Pathology and Weeds

(NC--Admissions of 2005 and onwards)

Time : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any *five* questions.

All questions carry equal marks.

1. Why do plants exhibit dormancy ? Explain various external factors that regulate the process of dormancy.
2. What do you understand by Integrated Pest Management ? Elaborate the concept giving suitable examples.
3. Differentiate between any *three* :
 - (a) Autoecious and Heteroecious fungus
 - (b) Plant growth regulators and Plant growth retardants

P.T.O.

- (c) Photomorphogenesis and Skotomorphogenesis
 - (d) Selective and Non-selective herbicides
 - (e) Apoplast and Symplast.
4. With the help of suitable examples, explain herbicide resistance.
What will you do to manage the problem ?
5. Briefly describe any *three* :
- (a) *Argemone mexicana*
 - (b) Long day plants
 - (c) Any bacterial disease
 - (d) Source-sink relationship
 - (e) Biological control of common weeds.
6. Briefly describe any *two* :
- (a) Hormonal regulation of senescence
 - (b) Phytochrome and its role in flowering
 - (c) Commercial significance of Auxins or Gibberellins.

7. Give the name of causal organism and symptoms of rust of wheat. Draw life cycle of the fungus with the help of well labelled diagrams.
8. Write short notes on any *three* :
- (a) Detoxification mechanisms of herbicides
 - (b) Plant growth retardants and their commercial significance
 - (c) Physiological effects of auxins
 - (d) Vernalization
 - (e) Crop modeling