Roll No. .....

(05/25)

5264

### B. Sc. EXAMINATION

(Sixth Semester) 2000(10)

(a) What are BOTANY medicanded (a)

8=1×8 classified alePaper-InoM at tadW (d)

Biochemistry and Plant-Biotechnology

Time: Three Hours Maximum Marks: 40

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# (Compulsory Question)

- 1. (a) Define Apoenzyme.
  - (b) Name the plant hormone used as weedicide.

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- (c) Name the substance which is an oxygen scavenger in Nitrogen fixation.
- (d) Cosmids
- (e) Name the precursor of Ethylene.
- (f) Glyoxysomes and dixiz)
- (g) Define Vernalization.
- (h) What is Morphogenesis?  $8 \times 1=8$

## Biochemistry and Plant-Biotechnology

- 2. (a) Describe the various characteristics of enzymes.
  - (b) Write a note on Lock and Key Theory.
  - (c) Write a note on feedback inhibition.

3+3+2

3. What is Abscission? Which growth hormone is responsible for abscission? Describe the discovery, structure, mode of action of this hormone.

#### Unit II

- 4. Write a short note on photoperiodism. Explain its significance in relation to flowering. 8
- 5. (a) What are Lipids? How are they classified?
  - (b) Write a note on Beta Oxidation of fatty acids.

#### Unit III

- 6. What is nitrogen fixation? Give an account of biochemistry of nitrogen fixation.
- 7. Discuss the following: 4+4
  - (a) Plasmids
  - (b) CDNAs Library.

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#### Unit IV

- 8. Describe the different techniques of plant in write a short note on photoperiodism Explain
- 9.8 (a) Explain the nitrogen cycle. All 1912 211 4
  - (b) Difference between nitrification and denitrification. bigil are land (a) 4.3

(b) Write a note on Beta Oxidation of fatty

biochemistry of nitrogen fixation.