$(2 \times 10 = 20)$ 

# (Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 154652

Roll No.

#### B.TECH.

## Theory Examination (Semester-VIII) 2015-16

### PLANT BIOTECHNOLOGY

Time: 3 Hours Max. Marks: 100

Section-A

- 1. Attempt all parts.
  - (a) What is micropropagation?
  - (b) What is nitrogen fixation?
  - (c) What do you mean by gene expression?
  - (d) What is microprojectiles?
  - (e) What is transenic potato?
  - (f) Wiat is co-integrate formation?

(1) P.T.O.

- (g) Give various stages that control gene expression.
- (h) What is cytoplasmic male sterility?
- (i) What is stress tolerance?
- (j) What are Transgenic plants?

#### **Section-B**

## 2. Attempt any five parts.

 $(10 \times 5 = 50)$ 

- (a) Explain Gynogenesis.
- (b) What do you mean by Molecular forming?
- (c) Explain applications of miropropagation.
- (d) Explain Plasmids of Agrobacterium.
- (e) What do you mean by colinearity analysis?
- (f) Explain crossing barriers.
- (g) Give brief idea about economic role of transgenic plants.
- (h) What do you mean by Genetic determinats of nodule formation?

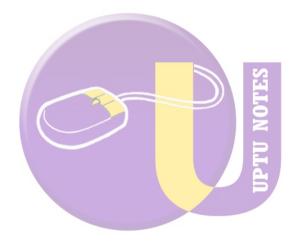
(2) P.T.O.

## **Section-C**

## Attempt any two parts:

 $(15 \times 2 = 30)$ 

- 3. Elaborate with examples for improved crop varieties through somactonal variaties in invitro cultures.
- 4. Explain chloroplast genetics and the extent of plasmid autonomy.
- 5. Explain cytology of cell.



(3) P.T.O.