Printed Pages: 3 **EBT-012**

(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. (2×10 = 20)

(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?

(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. (10×5=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?

Section-C

Attempt any two parts : **(15×2=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.