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(20517) Roll No. ....

B.Sc. Bio-Tech.-III Yr.

NS-3473

B.Sc. (Bio-Technology) Examination, May 2017

Plant Bio-Technology

[B-301]

(New)

Time : Three Hours ] [Maximum Marks : 75

Note : Attempt any five questions, out of ten questions.

1. Write detail account on Biotechnological approaches in India right from beginning. 15
2. Write the suitable method of organogenesis and its applications. 15
3. Write about the different method of plant propagation. 15

4. ✓ Write the name of various techniques used in In Vitro propagation. Write their applications and demerits. 10+3+2=15

5. How the markers are helpful in selection of hybrid cells. Explain it. 15

6. Write about the physical gene transfer method and its significance. 15

7. Describe the method of cybrid production and also the applications of cybrids. 15

8. Describe the role of elicitors in production of plant secondary metabolites. 15

9. Write notes on -  $7\frac{1}{2}+7\frac{1}{2}=15$

(i) Transgenic plants-used as human therapeutics

(ii) Disease resistant plants production

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• 10. Write notes on -

$$7\frac{1}{2} + 7\frac{1}{2} = 15$$

(i) Protoplast culture

(ii) Micropropagation