

Roll No. Total No. of Pages: 02

Total No. of Questions: 09

(Sem.-6) B.Sc.(BT) (2013 to 2017) PLANT BIOLOGY

> Subject Code: BSBT-304 Paper ID: [F0243]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1. Define:

- a) Micropropagation
- N.F. its it and the results in the r b) Somaclonal Variations
- c) Cryotherapy
- d) Virus Indexing
- e) Somatic embryos
- f) Protocorms
- g) Haploid plants
- h) Slow growth cultures
- i) Homozygous lines
- j) Freeze Preservation



SECTION-B

- Q2. Write a note on large scale culture of plants.
- Q3. Discuss applications and limitations of Virus free stock.
- Q4. Write a note on Gametoclonal Variaions.
- Q5. What are artificial seeds? Discuss their advantages and limitations.
- Q6. Write a note on Analytical breeding.

SECTION-C

- Q7. Elaborate on the Molecular basis of Somaclonal variations. Discuss also their advantages and limitations.
- Q8. Write in detail about Embryo Rescue and its importance in Plant biotechnology.
- Q9. Discuss strategies for Germplasm Conservation. List its advantages and limitations.

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