

Total No. of Questions: 09

B.Sc.(BT) (2014 to 2017) (Sem.-6) PLANT BIOLOGY

> Subject Code: BSBT-304 M.Code: 47073

Time: 3 Hrs. Max. Marks: 60

### **INSTRUCTION TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks
- 2. 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:

- auon
  embryo Rescue
  d) Somaclonal Variations
  e) Agar cultures
  Cryor

- g) Anther culture
- h) Germplasm
- i) Micropropagation
- j) Callus



## **SECTION-B**

- Q2. Discuss the somatic embryo genesis and its advantages.
- Q3. What are virus free plants?
- Q4. What are artificial seeds? What are their advantages?
- Q5. Write about the homozygous lines.
- Q6. How adventitious buds are induced?

## **SECTION-C**

- Q7. Describe large scale culture and the problems associated with large scale Culture of plant cells.
- Q8. Define Virus Indexing. How virus free stocks are maintained. Give their applications and limitations.
- Q9. What do you know about the following:
  - a) Recovery of interspecific hybrids.
  - b) Analytical breeding and production of only male population.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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