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Total No. of Pages : 02

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B.Sc.(Agriculture) (2014 to 2018) (Sem.-5) PLANT TISSUES CULTURE AND GENETIC TRANSFORMATION Subject Code : BSAG-502 M.Code: 74166

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- 1) Write short notes on :
- c) Homokaryone and Heterokaryone
 d) Somaclone
 e) Gynogenesis
 h) Gametoclone

 - g) Germplasm
 - h) Organogenesis
 - i) In vitro grafting
 - j) Diplointic selection



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SECTION-B

- 2) What is micro propagation? Write note on stage IV i.e. transplant into soil.
- 3) Differentiate between Direct and Indirect plant regeneration.
- 4) What is ovary culture and Write factors effecting ovary and how it is better than another culture.
- 5) Write contribution of the G. Haberlandt and EC Cocking in PTC.
- 6) What is hormonal theory of organ formation?

SECTION-C

- 7) What is Ti Plasmid? Write its structure and discuss about *Agrobacterium* method of gene transfer.
- 8) What is Cryopreservation? Explain various steps for cryopreservation in plants.
- 9) What are secondary metabolites? Write various factors limiting large-scale production of useful compounds.

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.