

Total No. of Pages : 02

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

Max. Marks : 60

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

Q.1 Write short notes on :

- a) Pollen culture
- b) Somatic cell culture
- c) Anther culture
- d) Tissue culture
- e) Meristem Culture
- f) Protoplast Culture
- g) Cryopreservation
- h) Ovule culture
- i) Embryo culture
- j) Transgenic crops

SECTION-B

- Q2. Describe the Micro propagation.
- Q3. Write the In vitro grafting.
- Q4. Describe history of tissue culture.
- Q5. Describe the Somaclonal variations.
- Q6. Describe Secondary metabolite.

SECTION-C

- Q7. Describe the Somatic embryogenesis.
- Q8. Describe Commercialization of transgenic plants.
- Q9. Describe the Method of genetic transformation.

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.