

B.Sc.- III CBCS Pattern Semester-VI
012F - (DSE-II) - Botany: Plant Biotechnology-II

P. Pages : 2

Time : Three Hours



GUG/W/23/13332

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrates your answer with diagrams and suitable examples whenever necessary.

1. Write a note on:
- a) Transgenic Crops. 5
 - b) Advantages of gene transfer. 5
- OR**
- c) Microinjection. 2½
 - d) Electroporation. 2½
 - e) Ballistic Gun Method. 2½
 - f) Silicon Carbide Method. 2½
2. Write note on:
- a) Advantages and Limitations of Indirect Gene Transfer. 5
 - b) Agrobacterium mediated gene transfer. 5
- OR**
- c) Ri Plasmid. 2½
 - d) GUS. 2½
 - e) GFP. 2½
 - f) Luciferase. 2½
3. Write a note on:
- a) Bt-Cotton. 5
 - b) Advantages and Disadvantages of herbicide resistant Plants. 5
- OR**
- c) Golden Rice. 2½
 - d) Moon dust Carnation. 2½
 - e) Roundup Ready. 2½
 - f) EPSPS. 2½
4. Write a note on:
- a) Edible Vaccine. 5
 - b) Limitations of Edible Vaccine. 5

OR

- c) Biodegradable Plastic. 2½
- d) Advantages of Chloroplast Transformation. 2½
- e) Biosafety. 2½
- f) Bioethics. 2½

5. Write in very short any ten. 10

- a) Transformation.
- b) PEG.
- c) Protoplast.
- d) Ti Plasmid.
- e) Marker Gene.
- f) Antibiotic Resistance Gene.
- g) CRY 1 Protein.
- h) Carotenes.
- i) Floriculture.
- j) Live-attenuated vaccines.
- k) PLA.
- l) Transplastome.
