

M.Pharm. F.Y. (Pharmacognosy) CBCS Pattern Semester-II  
**MPG201T - Medicinal Plant Biotechnology**

P. Pages : 1

Time : Three Hours



**GUG/S/25/14170**

Max. Marks : 75

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- Notes :
1. Assume suitable data wherever necessary.
  2. Illustrate your answers wherever necessary with the help of neat sketches.
  3. All questions are compulsory.

1. Define following term. **10x2**  
**=20**
- i) Enzymes
  - ii) Biotechnology.
  - iii) DNA
  - iv) Organogenesis.
  - v) Fermentation.
  - vi) Gene transfer.
  - vii) Biotransformation
  - viii) Biosynthesis.
  - ix) Transgenic plant.
  - x) Cloning.
2. Solve **any two** out of these. **2x10**  
**=20**
- i) Describe study of hairy root multiple shoot culture and its plant.
  - ii) Discuss in details about different method of cloning.
  - iii) Explain sterilization methods involve in tissue culture.
3. Solve **any five** out of seven. **5x7**  
**=35**
- i) Explain Application of fermentation technology.
  - ii) Gene transfer in plant and its application.
  - iii) Application of PCR.
  - iv) Explain genetic code.
  - v) Application of protoplast culture.
  - vi) Recombinant DNA Technology.
  - vii) Cell signaling.

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