

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[M.PHARM 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2995

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - II (PCI New Regulations 2016)
PHARMACOGNOSY - MPG
PAPER I – MEDICINAL PLANT BIOTECHNOLOGY**

Q.P. Code: 262995

Time: Three hours

Answer ALL Questions

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe briefly on development of plant biotechnology as a source of medicinal agents. Mention its applications in pharmacy.
2. Write a note on:
 - a. Organogenesis in plant tissue culture.
 - b. Production of Ergot alkaloids by fermentation method.

II. Write notes on:

(7 x 5 = 35)

1. Applications of PCR in plant genome identification.
2. Methods of protoplast fusion techniques.
3. Transgenic plants and their applications.
4. Different methods of cloning.
5. Applications of fermentation technology.
6. Protein replication.
7. Elicitors on the production of secondary metabolites.
