

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

[M.PHARM 0823]

**AUGUST 2023
(APRIL 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. Protoplast fusion techniques and its applications.
2. a) Single cell proteins and its applications.
b) Production of ergot alkaloids by fermentation.

II. Write notes on:

(7 x 5 = 35)

1. Biotransformation and Transgenesis.
2. Hairy root culture and Micro propagation.
3. Different methods of cloning and its applications.
4. Cell signaling.
5. Application of PCR in plant genome analysis.
6. Gene transfer in plants and its applications.
7. DNA recombinant technology in plant biotechnology.
