

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

[MPHARM 0921]

**SEPTEMBER 2021
(OCTOBER 2020 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. Discuss in detail about historical perspectives and prospects for development of plant biotechnology as a source of medicinal agents. Write a brief note on its applications in Pharmacy.
2. Write a detail note on the bioreactors used for pilot and large scale cultures of plant cells.

II. Write notes on:

(7 x 5 = 35)

1. Production of medicinal agents by plant tissue culture.
2. Cell signaling.
3. Embryogenesis.
4. Protoplast fusion culture.
5. Advantages and disadvantages of plant cell cloning.
6. Transgenic plants.
7. Enzymes of pharmaceutical interest.
