

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

[LQ 0121]

**JANUARY 2021**

**Sub. Code: 2995**

**(APRIL 2020 EXAM SESSION)**

**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. Explain the factors influencing biotransformations and transgenesis.
2. Applications of hairy root culture and methods of protoplast fusion cultures.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Proteolytic and pectinase enzyme production.
2. Give the list of microorganisms used for Single Cell Proteins (SCP) production.
3. Gene prediction methods.
4. Applications of genetic transformation.
5. RNA and protein replication.
6. Micro-propagation.
7. Recombinant DNA technology.

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