

[LG 349]

APRIL 2015

Sub. Code: 2910

**M.PHARM. DEGREE EXAMINATION  
FIRST YEAR  
BRANCH III – PHARMACOGNOSY  
PAPER IV – PHYTOCHEMISTRY AND BIOTECHNOLOGY**

*Q.P. Code : 262910*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Applications of plant tissue culture in the production of secondary metabolites.
2. Modern methods of separation and identification of phytoconstituents.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Microbiological conversions
2. Comparative Phytochemistry in Pharmacognosy
3. Production of penicillin through fermentation
4. Microchemical analysis
5. Production of Yeast and its uses
6. Pharmaceutical effluents
7. Biotransformation
8. Cell suspension culture and its applications
9. Functions of Secondary metabolites
10. Spectral studies of identification of secondary metabolites

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