

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

[BPHARM 0921]

SEPTEMBER 2021
(FEBRUARY 2021 EXAM SESSION)

Sub. Code: 4268

**B. PHARMACY DEGREE EXAMINATION
FOURTH (FINAL) YEAR – (NON-SEMESTER)
PAPER II – ADVANCED PHARMACOGNOSY
Q.P. Code: 564268**

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Discuss in brief the utilization of radioactive isotopes in biogenetic studies.
b) Discuss the application of Plant tissue culture with suitable example.
2. a) Describe the commercial production of Senna glycosides and Solasodine.
b) Explain the biogenetic pathway leading to the formation of Atropine and Digoxin.

II. Write notes on:

(8 x 5 = 40)

1. Role of IR and UV spectroscopy in evaluation of plant drugs.
2. Application of immobilized enzymes in drug analysis.
3. Preparation of Herbal Shampoos and Creams with examples.
4. Cell suspension culture and its application.
5. Production and utilization of Citric acid.
6. Preparation and standardization of Churna and Lehya.
7. Principle of Homeopathy.
8. Preparation of allergenic extract.

III. Short answers on:

(10 x 2 = 20)

1. Define Siddha.
2. Totipotency.
3. What is protoplast culture.
4. Two application of TLC.
5. Structure and uses of Glycyrrhizin.
6. Two Hallucinogenic plant.
7. Source family and uses of Pepsin.
8. Structure and uses of Penicillin.
9. What is hairy root culture?
10. Mention the treatment methods for allergy.
