

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

[M.PHARM 0524]

MAY 2024
(APRIL 2024 EXAM SESSION)

Sub. Code: 2944

M.PHARMACY DEGREE EXAMINATION
SEMESTER - I (PCI New Regulations 2016)
PHARMACEUTICAL CHEMISTRY - MPC
PAPER IV - CHEMISTRY OF NATURAL PRODUCTS

Q.P. Code: 262944

Time: Three hours

Answer ALL Questions

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Explain briefly the source, isolation and chemistry of morphine alkaloids.
b) Write a detailed note on the crude drugs used in diabetic therapy.
2. a) Enumerate the systematic elucidation of the structure of Vitamin A.
b) Sketch out the structure of reserpine through systematic elucidation.

II. Write notes on:

(7 x 5 = 35)

1. Explain the stereochemical aspects of ephedrine.
2. Brief out various methods utilized in the isolation and purification of flavonoids.
3. Write the principle involved in DNA & RNA estimation.
4. Define isoprene rule. Write the method of determination of double bonds in terpenoids.
5. Write a note on teprotide.
6. Briefly elucidate the structure of retinol.
7. Explain the chemistry of β – Lactam antibiotics.
