

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

[M.PHARM 0823]

AUGUST 2023
(APRIL 2023 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) Enumerate briefly the chemistry and structure elucidation of cholesterol.
b) Describe the clinical applications and advances in gene therapy.
2. a) Brief the general methods of structural elucidation of terpenoids.
b) Systematically elucidate the structure of quercetin.

II. Write notes on:

(7 x 5 = 35)

1. Write a note on Kuhn – Roth method & Herzig Meyer method in structure determination in alkaloids.
2. Explain various mass spectral methods of elucidating the structure of penicillin.
3. Explain the active constituents with structure present in Curcuma longa Linn.
4. Write a note on the chemistry of sterols.
5. Write briefly on the history and chemical aspects of antimalarial drugs and its analogues.
6. Explain the physiological significance of vitamin B series.
7. Brief out the application of IR spectroscopy in structure determination of natural compounds.
