

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

[LP 944]

NOVEMBER 2019

Sub. Code: 2944

M.PHARM. DEGREE EXAMINATION

(PCI New regulations 2016)

SEMESTER-I

BRANCH II – PHARMACEUTICAL CHEMISTRY – MPC

PAPER IV – CHEMISTRY OF NATURAL PRODUCTS

Q.P.Code: 262944

Time: Three Hours

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Describe the degradative reactions of Thiamine, test for method of identification and assay.
b) Chemistry of Cephalosporins.
2. a) Explain Hofmann exhaustive methylation and Van Braun method of ring opening.
b) Ziesel's method of methoxy group determination.

II. Write notes on:

(7 x 5 = 35)

1. Drugs for liver dysfunction in indigenous system.
2. Principles of DNA and RNA estimation.
3. Give the structural elucidation of camphor.
4. Discuss the chemistry of Paclitaxel.
5. Write a short note on Gene therapy.
6. General methods of structural elucidation of Terpenoids.
7. Applications of ^1H NMR in structural characterization of natural compounds.
