

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

[LQ 0121]

JANUARY 2021

Sub. Code: 2944

(APRIL 2020 EXAM SESSION)

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. Write briefly structure elucidation and stereochemistry of ephedrine and morphine.
2. a) Write the principle behind the estimation of RNA and DNA.
b) Discuss about clinical application and recent advantages in gene therapy.

II. Write notes on:

(7 x 5 = 35)

1. Write note on flavonoids.
2. Write the isoprene rule and general methods of structure elucidation of β -carotene.
3. Stereo chemistry and nomenclature of steroids.
4. Structural characterization of natural compounds of digitalis glycosides.
5. Chemistry and physiological significance of Niacin.
6. Write note on progesterone.
7. Explain the active constituents certain crude drugs used in diabetic therapy.
