

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

[LP 346]

OCTOBER 2019

Sub. Code: 2907

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH II – PHARMACEUTICAL CHEMISTRY
PAPER IV – NATURAL PRODUCTS OF MEDICINAL INTEREST**

Q.P. Code : 262907

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define hormone and explain in detail about natural hormone and synthetic derivatives.
2. Enumerate in detail on modifications in base, sugar and phosphate moiety of Oligonucleotide.

II. Write notes on:

(10 x 6 = 60)

1. Explain the application of recombinant D.N.A. technology.
2. Elucidate the presence of Phenanthrene in Morphine with evidence.
3. How chromatography technique is useful in the separation of natural products?
4. Define alkaloids with classification and its various functions.
5. Give the source and molecular formula of Reserpine. How will you confirm the presence of methoxy group and nitrogen in Reserpine?
6. Explain the steps in isolation of alkaloids.
7. What are therapeutic application of *Gymnema sylvestre* and *Curcuma longa*?
8. Give a note on natural products as lead in drug discovery.
9. Write short notes on Sapogenin.
10. Compare Azithromycin, Erythromycin and Flurithromycin.
