

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

[LP 348]

OCTOBER 2019

Sub. Code: 2909

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH III – PHARMACOGNOSY
PAPER III – BIOGENESIS AND CHEMISTRY OF NATURAL PRODUCTS**

Q.P. Code: 262909

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about the biosynthesis, chemistry, isolation and estimation of Cardiac Glycosides.
2. Describe in detail about the methods of screening of crude drugs for:
a) Hypoglycemic activity b) Hepatoprotective activity.

II. Write notes on:

(10 x 6 = 60)

1. Chemistry of insulin.
2. Aromatic bio-synthesis.
3. Technique in the elucidation of bio-synthetic pathways.
4. Industrial isolation of sennosides.
5. Diuretic activity screening methods of natural products.
6. Bio-synthesis of morphine.
7. Vitamin A and C.
8. Forskolin.
9. Carbohydrate utilization.
10. Estimation of oxytocin and pectin.
