

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

[LQ 0121]

**JANUARY 2021**

**Sub. Code: 2993**

**(APRIL 2020 EXAM SESSION)**

**M.PHARMACY DEGREE EXAMINATION**

**SEMESTER-I (PCI New regulations 2016)**

**PHARMACOGNOSY – MPG**

**PAPER III – PHYTOCHEMISTRY**

***Q.P. Code : 262993***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the isolation and characterisation of :  
a) Quinine                      b) Quercetin
2. Explain the recent advances in the separation of phytoconstituents.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Application of tracer techniques in biosynthetic pathways.
2. Selection of lead structure in herbal drug industry.
3. Application of GCMS in the characterization of phytoconstituents.
4. Spectral methods of identification of Nicotine.
5. Biosynthesis and isolation of Digitoxin.
6. Different phases of clinical trails.
7. Structural elucidation of Citral.

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