

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

**[M.PHARM 0922]**

**SEPTEMBER 2022  
(APRIL 2022 EXAM SESSION)**

**Sub. Code: 2944**

**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. Explain the application of IR, NMR and mass spectroscopic characterization of Penicillin.
2. Write the chemistry and biological significance of folic acid and vitamin A.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Write the principle of DNA estimation.
2. Application of mass spectroscopy.
3. Structural elucidation of Quarcetin.
4. Write a short note on diabetic therapy.
5. Discuss the structural characterization of citral.
6. Explain the stereochemistry and nomenclature of steroids.
7. Describe the chemistry of contraceptive agent for female sex hormones.

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