

[LK 346]

MAY 2017

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. The application of the following analytical techniques in the isolation, identification and analysis of plant constituents-GLC, HPLC, MS, ORD and CD.
2. The following methods of employed in structure elucidation of natural products.
  - a) Hoffmann's exhaustive methylation.
  - b) Herzig Meyer method.
  - c) Ziesel's method of determination of methoxy groups.
  - d) Zerewitinoff's method.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Steroid receptors.
2. Milbenmycins as lead for new pharmaceuticals.
3. Polypeptide antibiotics.
4. Lincomycins.
5. Mechanism of action of Nocardicins.
6. New biological targets for drug development.
7. Stereo chemistry of the steroid nucleus.
8. Mechanism of action of Beta lactamase inhibitors.
9. Acute constituents in pterocarpus marsupiam.
10. Constitution of streptomycin.

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