

[LA 348]

MAY 2012

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: 3 hours**  
**(180 Min)**

**Maximum: 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on:**

<b>Pages</b>	<b>Time</b>	<b>Marks</b>
<b>(Max.)</b>	<b>(Max.)</b>	<b>(Max.)</b>

- |   |    |    |    |
|---|----|----|----|
| 1. Describe in detail about various methods of screening of natural products for (i)Antineoplastic activity<br>(ii) Antifertility activity. | 17 | 40 | 20 |
| 2. Write in detail about the occurrence, chemistry, biosynthesis and estimation of Penicillin.  | 17 | 40 | 20 |

**II. Write notes on:**

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|---|---|----|---|
| 1. Isolation and estimation of Atropine.            | 4 | 10 | 6 |
| 2. Screening of Invitro Antioxidant activity.       | 4 | 10 | 6 |
| 3. Isoprenoid Biosynthesis and its significance.    | 4 | 10 | 6 |
| 4. Chemistry of Insulin.                            | 4 | 10 | 6 |
| 5. Chemistry of Vitamin-B12.                        | 4 | 10 | 6 |
| 6. Screening for antiviral activity.                | 4 | 10 | 6 |
| 7. Chemistry and therapeutic uses of Tetracyclines. | 4 | 10 | 6 |
| 8. Estimation and biosynthesis of Morphine.         | 4 | 10 | 6 |
| 9. Isolation and estimation of Tannic acid.         | 4 | 10 | 6 |
| 10. Stereochemistry of Cholesterol.                 | 4 | 10 | 6 |

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