

(LE 4268)

FEBRUARY 2014

Sub. Code: 4268

**FOURTH YEAR B.PHARM. EXAM**  
**PAPER II – ADVANCED PHARMACOGNOSY**

*Q.P. Code: 564268*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. Discuss in detail the various methods involved in extraction, purification and identification of phytoconstituents of crude drugs.
2. Give an account of the following:
  - a. Plant growth regulators and their applications in production of secondary metabolites.
  - b. Industrial production of menthol.

**II. Write notes on:**

**(8X5=40)**

1. Biosynthesis of Penicillin.
2. Define natural allergens. How they are classified?
3. Industrial production and utilization of Senna glycosides.
4. Give the preparation and uses of Papain.
5. Anti-viral drugs.
6. Cell suspension culture and its application.
7. Composition of a typical tissue culture medium for the production of callus.
8. Preparation and uses of Tinctures.

**III. Short Answers on:**

**(10X2=20)**

1. Holistic medicines.
2. Contact allergens.
3. Total Ash value.
4. Define Arista.
5. Give examples of plants having anti-HIV activity.
6. Autoradiography.
7. Write the source and uses of quinoline alkaloids.
8. Principle involved in HPTLC.
9. Define totipotency.
10. Write the structure and uses of morphine.

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