

(LK 4268)

FEBRUARY 2017

Sub. Code: 4268

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

*Q.P. Code: 564268*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Elaborate on modern methods of extraction of crude drugs and application of latest techniques in isolation, purification and identification of crude drugs.
2. Explain the principle, protocol and applications of Cell Suspension Culture with neat labelled diagrams.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Biosynthesis of Penicillin.
2. Plant constituents with anti HIV activity.
3. Stability testing of herbal products.
4. Siddha system of medicine.
5. Export potential of medicinal and aromatic plants of India.
6. Preparation of allergenic extracts.
7. HPTLC.
8. Papain.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Chemical structure and uses of Reserpine and Morphine.
2. Differentiate Asavas and Aristas.
3. Define allergy. Give example for allergens.
4. Define Totipotency.
5. Give example for sterilising agents used in Plant tissue culture.
6. Source and uses of Pepsin.
7. Name the different methods for enzyme immobilization.
8. Give the source and uses of Hypericin and Glycyrrhizin.
9. Autoradiography.
10. Structure of citric acid and menthol.

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