

(LG 4268)

FEBRUARY 2015

Sub. Code: 4268

**FOURTH YEAR B.PHARM. EXAMINATION  
PAPER II – ADVANCED PHARMACOGNOSY***Q.P. Code: 564268***Time: Three hours****Maximum: 100 marks****I. Essay:****(2 x 20 = 40)**

1. a) Explain the biogenetic pathway leading to the formation of atropine.  
b) Industrial production of Diosgenin.
2. a) Write the basic principles involved in Ayurveda and Homeopathy.  
b) Types of Ayurvedic formulations and their standardisation.

**II. Short notes:****(8 x 5 = 40)**

1. Types of plant tissue culture
2. Tracer techniques
3. Modern methods of extraction
4. Enzyme immobilization techniques
5. Industrial production and pharmaceutical application of Vinca alkaloids
6. Herbal cosmetics
7. A brief account of plant based industries and utilization involved in work on medicinal and aromatic plants in India.
8. Application of adsorption chromatography in the identification of phytoconstituents.

**III. Short answers:****(10 x 2 = 20)**

1. Starting materials for Industrial production of Citric acid
2. Source and uses of the enzyme papain
3. Pharmaceutical application of morphine and digoxin
4. Antiviral drugs of plant origin
5. Define extractive values
6. Single cell culture
7. Define fermentation technique
8. Competitive feeding
9. Importance of UV analysis of drugs
10. Give the source, constituents and uses of Solasodine

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