

(LN 4268)

**AUGUST 2018**

Sub. Code: 4268

**B.PHARM. DEGREE 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. a) Describe the WHO guidelines for assessment of herbal medicines.  
b) Industrial production and applications of Quinoline alkaloids.
2. a) Explain the biosynthetic pathway for Morphine.  
b) Write brief on Callus culture technique and its application towards the production of secondary metabolites.

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

1. Principle and application of Paper and Thin layer Chromatography.
2. Stability test for herbal extracts.
3. Anti viral drugs from plant source.
4. Enzyme immobilization technique.
5. Export potential of medicinal and aromatic plants.
6. Natural allergens.
7. Biosynthesis of Penicillin.
8. Preparation and standardisation of Asavas and Aristas.

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

1. Applications of Ergometrine and Reserpine.
2. Biological source and uses of Gokhru and Pyrethrum.
3. List out any four basic metabolic pathways.
4. Organogenesis.
5. Anticancer drugs.
6. Any two applications of HPTLC.
7. Plant growth inhibitors.
8. Define Lehyas and Bhasmas.
9. Macro and micro nutrients.
10. Uses of streptokinase.

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