

(LL 4268)

AUGUST 2017

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) Write the basic principles involved in supercritical fluid extraction and counter current extraction.
b) Application of HPTLC in pharmacy.
2. a) Describe the principle involved in Gas chromatography and its applications in pharmacognosy.
b) Write notes on basic principle involved in Ayurveda. Describe two preparation of ayurvedic herbal formulations and its standardization.

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

1. Isoprenoid biosynthesis.
2. Callus culture.
3. Biosynthesis of atropine.
4. Tri Carboxylic Acid cycle (TCA cycle).
5. Enzyme immobilization technique.
6. Streptokinase.
7. Principle of Homeopathy.
8. Plant growth regulators.

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

1. Define churna and bhasma.
2. Define single cell protein.
3. What is chromatography?
4. Mention two radioactive isotopes used in biogenetic studies.
5. What is papain?
6. Structure of menthol and citric acid
7. Mention two plant constituents with Anti-HIV activity.
8. Mention botanical source and uses of Rasna and Tylophora.
9. Name two herbal tinctures.
10. Name two hallucinogenic plants.
