

(LJ 4268)

AUGUST 2016

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) Write the basic principles involved in Unani and Siddha.
b) Types of Siddha formulations and their standardization.
2. Explain the utilization of Radio-active isotopes in investigation of bio-genetic studies.

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

1. Mevalonic acid pathway.
2. Protoplast culture.
3. Super critical fluid extraction.
4. Biogenesis of morphine.
5. Herbal shampoos preparation and standardization.
6. Penicillin biosynthesis.
7. Isolation and purification of papain and pepsin.
8. Principle and application of gas chromatography.

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

1. Define arista and asava.
2. Uses of gossypol.
3. Define capillary electrophoresis.
4. Write significance of extractive values.
5. Single cell culture – any two applications.
6. Define Lehyas and Gutikas.
7. Two differences of HPLC and HPTLC
8. Two uses of Streptokinase.
9. Two applications of Ergometrine.
10. Give example for tinctures and herbal syrups.
