

[LH 4268]

AUGUST 2015

Sub. Code: 4268

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

*Q.P. Code: 564268***Time : Three Hours****Maximum : 100 marks****Answer All Questions****I. Essay:****(2 x 20 = 40)**

1. Elaborate on the industrial production of
  - a) Tropane alkaloids.
  - b) Cardiac glycosides.
  - c) Sennosides.
  - d) Vinca alkaloids.
2. Give an account on WHO guidelines for the assessment of Herbal medicines.

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

1. Applications of Plant Tissue Culture.
2. Shikimic acid pathway.
3. Homeopathy.
4. Estimation of heavy metals in herbal preparations.
5. Enzyme immobilization.
6. Biogenesis of Atropine.
7. Streptokinase.
8. Callus culture.

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

1. Differentiate Churnas and Bhasmas.
2. Pharmaceutical applications of Digoxin, Ergometrine.
3. Clonal propagation.
4. Importance of spectroscopic methods in herbal drug analysis.
5. Source, family and uses of Pectinase.
6. Give two examples for hallucinogenic and teratogenic plants.
7. Types of allergens.
8. Chemical structure and uses of menthol & citric acid
9. Write about any 2 functions of Auxins in production of secondary metabolites
10. Name the different methods of feeding radio isotopes to plants in tracer technique.