

(LQ 4268)

FEBRUARY 2020

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) Discuss in detail modern methods of extraction of the phytoconstituents.  
b) Explain the industrial production and pharmaceutical application of tropane alkaloids.
2. a) Discuss the method of isolation and purification of enzymes.  
b) Explain the biogenesis and pharmaceutical application of Digoxin.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Biosynthesis of streptomycin.
2. Antiviral drugs.
3. Biogenesis of Ergometrine.
4. Preparation and standardization of Bhasmas.
5. Preparation and standardization of herbal creams.
6. Write the common vernacular names, botanical sources, chemical constituents and marketed formulation of tylophora.
7. Preparation of allergenic extracts.
8. Export potential of Medicinal and Aromatic plants of India.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Give the uses of pancreatin.
2. Application of HPLC.
3. Define callus culture.
4. Give the uses of Podophyllotoxin.
5. Treatment of allergy.
6. Define churnas.
7. Give the uses of Vidarabine.
8. Organogenesis.
9. Name two marketed formulation of Guggul.
10. Write the botanical sources and uses of Brahmi.