

(LQ 4258)

FEBRUARY 2020

Sub. Code: 4258

**B.PHARM. DEGREE EXAMINATION
SECOND YEAR
PAPER III – ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY**

Q.P. Code: 564258

Time: Three hours**Maximum: 100 Marks****I. Elaborate on:****(2 x 20 = 40)**

1. a) Explain stereochemistry of cyclic compounds.
b) Explain various methods of determination of configurations of geometric isomers.
2. a) Discuss chemistry and uses of ephedrine.
b) Explain chemistry and medicinal uses of Vitamin B₁ and Vitamin E.

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

1. Define and explain pharmaceutical importance of chirality.
2. Explain conformational analysis of 1, 2 dichloroethane.
3. Explain various methods of resolution of racemic modification.
4. Discuss the chemistry of imidazole.
5. Explain chemistry and uses of thymol.
6. Discuss chemistry of lanatoside.
7. Explain chemistry of uric acid.
8. Explain metal hydride reduction as synthetic tools.

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

1. What is Fischer projection?
2. Define asymmetric synthesis.
3. What is E-Z system of nomenclature?
4. Write structure and medicinal uses of camphor.
5. What are sennosides?
6. Write structure and uses of folic acid.
7. Write structure and medicinal uses of caffeine.
8. Give medicinal uses of flavonoids.
9. What is periodic acid oxidation?
10. Give synthetic uses of hydrazine and its derivatives.
