

(LE 4258)

FEBRUARY 2014

Sub. Code: 4258

SECOND YEAR B.PHARM. EXAM
PAPER III – ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY
Q.P. Code: 564258

Time: Three Hours

Maximum: 100 marks

I. Elaborate on: (2X20=40)

1. a) Describe the absolute and relative configuration.
b) Stereospecific and stereoselective synthesis.
2. Explain the chemistry and constitution of citral.

II. Write notes on: (8X5=40)

1. Clemmenson's reduction.
2. Reaction of furan.
3. Stereochemistry of cyclic compounds.
4. Chemistry of papaverine.
5. Relationship between menthol and thymol.
6. Schmidt rearrangement.
7. Synthesis of thiophene.
8. Structure and uses of Vitamin B₁ and E.

III. Short Answers on: (10X2=20)

1. Define glycoside.
2. Classify terpenoids.
3. Structure and uses of digoxin.
4. Define plane of symmetry.
5. Fischer projection.
6. Structure of hesperidine.
7. Two reaction of pyridine.
8. Structure of atropine and ephedrine.
9. Darzen's reaction.
10. Two synthesis of pyrimidine.
