

C.U. SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Pharmaceutical Organic Chemistry III - Theory

Subject Code: BP401T

Branch: B.Pharm

Semester: 4

Date: 15/04/2019

Time: 02:30 To 05:30

Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1 Attempt the following questions: (20)

- a) What do you mean by Unpolarised & Plane Polarised light?
- b) Discuss Fischer Synthesis for Purine.
- c) Define: Specific Rotation with its formula.
- d) Write Paal - Knorr synthesis.
- e) Explain Birch Reduction in Thiophene & Pyridine.
- f) Resonance in Furan.
- g) Write Dakin reaction.
- h) Draw structure & name of any two heterocyclic ring which contain two heteroatom.
- i) Explain Tautomerism with example.
- j) Write medicinal uses of Azepines.

Attempt the following questions:

Q-2 Attempt any two of following : (20)

- A** What is Racemic mixture? Write down properties of Racemic mixture. **10**
How can you resolve Racemic mixture? Explain its methods.
- B** Write a brief account on Purine: Sources, Synthesis & Chemical reaction. **10**
- C** Write reactions of following: **10**
- Wolf-Kishner Reduction
 - Birch Reduction
 - Clemmensen Reduction
 - Oppenauer Reduction
 - Backmann's Rearrangement

Q-3 Attempt any seven of following : (35)

- A** Draw different conformers of Cyclohexane **5**
- B** Discuss Asymmetrical Synthesis **5**
- C** What is Isomerism? Classify it with Examples. **5**
- D** Difference between: Enantiomers & Diastereomers (Any five points) **5**
- E** Explain different Chemical Reactions of Isoquinoline **5**
- F** Discuss Skarup & Friendlaner Synthesis of Quinoline **5**



- G** What is difference between DL & dl isomers? Explain it with examples. **5**
- H** Claisen – Schmidh Condensation with importance & mechanism. **5**
- I** Explain Sequence rule along with Priority Sequence. **5**

