

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U. SHAH UNIVERSITY

## Summer Examination-2022

**Subject Name: Pharmaceutical Organic Chemistry- III****Subject Code: BP401T****Branch: B.Pharm****Semester: 4****Date: 02/05/2022****Time: 11:00 To 02:00****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.

<b>Q-1</b>	<b>Answer in brief:</b>	<b>(20)</b>
	a) Structure and uses of : Purine and Pyrimidine.	<b>02</b>
	b) Note on chirality.	<b>02</b>
	c) Paal- knorr synthesis	<b>02</b>
	d) Define Special rotation with its formula.	<b>02</b>
	e) Birch's reduction	<b>02</b>
	f) Draw structure of any two heterocyclic ring having two hetero atom.	<b>02</b>
	g) What do you mean by EZ nomenclature	<b>02</b>
	h) Define optical isomers.	<b>02</b>
	i) Give uses of Thiophene.	<b>02</b>
	j) Define atropisomerism.	<b>02</b>

**Attempt the following questions:**

<b>Q-2</b>	<b>Attempt any two of following : (2*10 Marks = 20 Marks)</b>	<b>(20)</b>
	A Write a brief account on pyrrole: sources, synthesis, chemical reaction and uses.	<b>10</b>
	B What is racemic mixture? Write down its property and explain methods for resolution of racemic mixture.	<b>10</b>
	C What do you mean by nomenclature? Write down different method by giving examples	<b>10</b>
<b>Q-3</b>	<b>Attempt any Seven of following : (7*5 Marks = 35 Marks)</b>	<b>(35)</b>
	A Detail note on imidazole.	<b>5</b>
	B Describe Asymmetrical Synthesis	<b>5</b>
	C Structure, uses and chemical reaction of pyrazole	<b>5</b>
	D Draw different conformer of cyclohexane	<b>5</b>
	E Difference between enantiomer and diastereomer	<b>5</b>
	F Explain sequence rule along with priority sequence	<b>5</b>
	G Write Wolff Kishner reduction	<b>5</b>
	H Write a note on Furan	<b>5</b>
	I Differentiate Stereospecific and Stereo selective reaction.	<b>5</b>

