

B. PharmwFrinstramertechNew)

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Pharmaceutical Organic Chemistry: BP 401 T

P. Page	S:	2	
Time:	Th	ree	Hours



AW - 2348

Max. Marks: 75

Notes:

- All question carry equal marks.
- Answer All question.
- 3. Illustrate your answer necessary with the help of neat sketches.
- 4. Discuss the reaction, mechanism wherever necessary.
- 5. Use of pen Blue/Black ink/refill only for writing the answer book.
- a) Multiple choice questions.

10

- The number of degrees of rotation observed if 1 dm tube is used and concentration of compound is 1 g/ml
 - a) Optical rotation
 - b) Specific rotation
 - c) Geometric rotation
 - d) Conformation
- When equimolar quantities of dextro and levorotatory isomers are mixed together it is called as
 - a) Meso compound
 - b) Keto compound
 - c) Racemic mixture
 - d) Diastereoisomers
- iii) A carbon atom to which Four-different group are attached is a
 - a) Achiral center

b) Chiral center

c) Active center

- d) Inactive center
- iv) Identify the following structure



a) Indole

b) Quinoline

c) Isoquinoline

- d) Naphthalene
- v) Single heterocyclic ring called as
 - a) Fused ring

b) Diacyclic

c) Monocyclic

- d) None of above
- vi) Reserpine an anti hypertensive drug which heteroaromatic ring in its structure
 - a) Indole

b) Isoquinoline

c) Quinoline

- d) Imidazole
- vii) Gauche and anti forms are
 - a) Conformational Isomers
- Racemic mixture
- c) Geometric Isomers
- d) Optical Isomers

	PF	irs	tRanker.com				
	Fi	rst _{ifi} a)	a) Benzene > Pyrrole > Furan b) Pyrrole > Benzene > Thiophene				
			c) Thiophene > Pyrrole > Furan d) Pyrrole > Thiophene > Furan				
		ix)	Caffeine contains which heteroaromatic ring				
			a) Pyrimidine b) Purine c) Pyrrole d) Oxazole				
		10000					
		X)	Na BH ₄ and LiAlH ₄ are a) Oxidizing agents b) Neutralizing agents				
			c) Complexing agents d) Reducing agents				
	b)	Solv	ve following questions -	10			
	0)	501	solve following questions -				
		1)	Write about chiral molecule				
		2)	Stereo Isomerism in biphenyl compound.				
		3)	Syn and Anti system.				
		4)	Stereospecific reaction				
		5)	Oxazole				
2.		Lon	g answer type questions any two.	20			
		1)	Discuss DL, RS and EZ nomenclature				
		2)	Stereospecific and stereoselective reactions.				
		3)	Write a detailed account on furan and imidazole.				
3.		Sho 1)	rt answer type questions any Seven. Atropisomerism	35			
		2)	Reactions of chiral molecules.				
		3)	Explain racemic mixture and meso compounds are optically inactive.				
		4)	Claisen-Schmidt condensation.				
		5)	Birch reduction.				
		6)	Pyridine				
		7)	Quinoline.				

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8)

Sequence rules and RS system.

Conformational isomerism of ethane.
