	Re	gistration no:										
Total Number of Pages: 3 B.PHARM 15PH303												
3 rd Semester Regular / Back Examination 2017-18 Organic Chemistry-II Branch: B.Pharma Time: 3 Hours Max marks: 100 Q Code: B979 Answer Part-A which is compulsory and any four from the Part-B.												
The figures in the right hand margin indicate marks. Part-A												
Q.1	a)	Choose the correct answer: 2-Butene exhibits which type of isomerism? A) Geometrical isomerism B) Keto-enol tautomerism C) Chain isomerism D) None of the above									(2 x 10)	
	b)	The compound wind A) Methyl n-propy above						propa	ın-2-o	ol [D) All of the	
	c)	1-Butene and cycl A) Ring-chain	lobutane ex B) Positio		nich typ C) Tau				Funct	tional		
	d)	Isomers are simila A) Molecular form		olecular	charge	C) Coı	nfigur	ation		D) Di	pole moment	
	e)	Select the pair of compounds which exhibit <i>cis-trans</i> (geometrical) isomerism: A) Lactic acid and tartaric acid B) Malonic acid and succinic acid C) Fumaric acid and maleic acid D) Acetic acid and crotonic acid										
	f)	Isomers which can A) Position isome		onverted ntiomer	•	h rota C) Me				·	oond are: onformers	
	g)	Meso tartaric acid A) Position isome		aric acio emic mi		C) Ena	ntion	ners	D) Dias	tereomers	
	h)	d- and I-forms of a A) Boiling points		active o	•	nd diff C) Spe			on [D) Spe	ecific gravity	
	i)	The most stable c A) Boat form		n of Cyc ir form		ne is: C) Ecli	psed	form		D) St	aggered form	
	j)	B) Normal C) The sha	is wrong all tate the pla ly, they pos pes of theil fological pro	ane of possess sar	olarized ne phys s are sai	light t ical pr me			dired	ctions		

	Fill in the blanks	(2x10)				
a)	and are examples of polynuclear aromatic hydrocarbons.	` .				
b)	On nitration of toluene, the nitro group will enter in position.					
c)	Benzene reacts with acetyl chloride in presence of aluminium chloride to form					
d)	Formation of phenol from chlorobenzene is an example ofaromatic substitution reaction.					
e)	Phenol is acidic because of resonance of its ion.					
	Answer the followings					
f)	What is Friedel Craft's reaction?					
g)	Write the structure and numbering of isoquinoline.					
h)	n) Give the application of NBS in organic synthesis.					
i)	What is Walden inversion?					
j)	What is asymmetric carbon?					
	Part-B					
a)	Define and classify isomerism with suitable examples.	(5)				
b)	Discuss briefly the concept of optical activity. Add a note on enantiomerism and diastereoisomerism.	(5)				
c)	Discuss the conformations of ethane.	(5)				
a)	Discuss the general method of preparation of Pyrrole.	(5)				
b)	Describe the chemical properties of Pyrrole	(10)				
a)	Discuss the structure of benzene. Outline any two methods of preparation benzene.	(5)				
b)	Discuss the mechanism of electrophilic substitution reactions of benzene with	(10)				
	suitable examples.					
a)	Discuss structure and the general methods of preparation of phenol.	(5)				
b)	Describe the physical and Chemical properties of phenols with suitable examples.	(10)				
	b) c) d) e) f) g) h) i) j) a) b) a) b) a)	and are examples of polynuclear aromatic hydrocarbons. b) On nitration of toluene, the nitro group will enter in position. c) Benzene reacts with acetyl chloride in presence of aluminium chloride to form d) Formation of phenol from chlorobenzene is an example of aromatic substitution reaction. e) Phenol is acidic because of resonance of its ion. Answer the followings f) What is Friedel Craft's reaction? g) Write the structure and numbering of isoquinoline. h) Give the application of NBS in organic synthesis. i) What is Walden inversion? j) What is asymmetric carbon? Part-B a) Define and classify isomerism with suitable examples. b) Discuss briefly the concept of optical activity. Add a note on enantiomerism and diastereoisomerism. c) Discuss the conformations of ethane. a) Discuss the general method of preparation of Pyrrole. b) Describe the chemical properties of Pyrrole a) Discuss the structure of benzene. Outline any two methods of preparation benzene. b) Discuss the mechanism of electrophilic substitution reactions of benzene with suitable examples.				

Q.7. a) Discuss structure and the general methods of preparation of Phenanthrene. (5) (10)**b)** Discuss the chemical properties of Phenanthrene with reference to the electrophilic substitution of aromatic compounds **Q.8 a)** Discuss the general methods of preparation of Furan. (5) (10) **b)** Discuss the chemical properties with mechanism of reactions of Furan. **Q.9** Discus the preparation and synthetic applications of the following organic reagents: (5X3) a) Diazomethane **b)** Aluminium tert-butoxide c) Lithium Aluminium Hydride