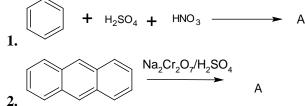
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## PARUL UNIVERSITY FACULTY OF PHARMACY

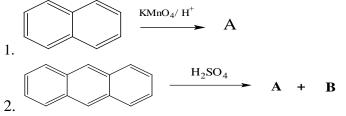
Enrollment No:

B.Pharm. Summer 2018-19 Examination

	D. Hullin, Summer 2010 17 Examination		
Semester: 3		Date: 22/04/2019	
	Subject Code: 08101201 Time: 10:00am To 0		l:00pm
Sub	ject Name: Pharmaceutical Chemistry-III (Organic Chemistry-I)	Total Marks: 75	
Inst	ructions:		
	gures to the right indicate full marks.		
2. M	ake suitable assumptions wherever necessary.		
Q.1	Essay type Questions. (Any 2 out of 3) (10 marks each)		(20)
1.	Write a short note on hybridization and hybrid orbitals with examples of SP <sup>3</sup>	hybridization.	
2.	Give a brief note on a Relative configuration (L and D), and Absolute configuration (R and S) with		
	examples.		
3.	Explain aromatic character of benzene with theory of orientation and reactivity	y.	
Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each)			(35)
1.	Write a short note on Racemic mixture and its resolution methods.		
2.	Give a short note on a various acid base theory.		
3.	Give a brief note on a Reactive intermediates.		
4.	Explain bonding and antibonding molecular orbitals with examples.		
5.	Give a brief account on Chirality.		
6.	Write Haworth synthesis for preparation of Naphthalene.		
7.	Write a short note on a Factors affecting acid base character, pka value and it	s significance.	
8.	Write reaction of Fridal crafts alkylation of benzene and explain its mechanis	m.	
9.	Explain various intermolecular and intramolecular forces, with particular exa	mples.	
Q.3	Answer in short. (2 marks each)	-	(20)
1.	Explain in brief about the conformational isomers with examples.		
2.	Complete the reaction:		



- 3. Explain concept of oxidation and reduction with examples.
- 4. Complete the reaction:



- 5. Define: 1. Stereochemistry 2. Free radical
- 6. Define: 1. Electronegativity 2. Bond dissociation energy
- 7. Define: 1. Enantiomer 2. Diastereomer
- 8. Explain steric effect with example.
- 9. Write applications of organic chemistry
- 10. Write short note on types of catalysis.