Seat No:	Enroll	ment No:
	PARUL UNIVERSITY FACULTY OF PHARMACY arm. Summer 2021-22 Examination	ACCIONAL DE LA COMPANION DE LA
Semester: 3		Date: 04/04/2022
Subject Code: BP301T Subject Name: Pharmaceutical Organ	ic Chemistry II – Theory	Time: 10:00 am to 01:00 Total Marks: 75
Instructions: 1. Figures to the right indicate maximum		
Make suitable assumptions wherever necessary	marks. ecessary.	
Q.1 Multiple Choice Questions (MCQs	s) (1 Mark Each)	
1. The carbon atoms in a benzene ring		
a) sp hybridized	b) sp ² hybridized	
c) sp ³ hybridized	d) None of the abo	ve
Which of the following agents is use	ed in order to make nitrobenzene from b	penzene with nitric acid?
a) Fecl ₃	b) NaoH	
c) conc.H ₂ So ₄	d) Toluene	
Methylbenzene is the IUPAC name	e of:	
a) Acetanilide	b) Phenol	
c) Toluene	d) None of the ab	ove
4. Phenol have the acidic property due	to:	
a) Phenoxide	b) Alkoxide	
c) Carboxylate	d) None of the abo	ve
Resonance means Delocalisation o	f result in:	
a) π electron	b) sigma electron	
c) both a & b	d) None of the abo	ove
6. In chlorination of benzene FeCl ₃ is u		
a) cl-	b) cl+	
c) cl ₂	d) HCl	
	riedel-crafts alkylation to produce elec-	ctrophile:
a) AlCl ₃ ,CH ₃ Cl	b) AlCl ₃ ,CH ₃ Cl ₂	
c) AlCl ₃ ,CH ₂ Cl	d) AlCl ₄ ,CH ₃ Cl	
8. Chemically fats & oils are:		
a) Triphenolic	b) Triglycerides	
c)Trialcholic	d)None of the abo	ve
9. The smaller the saponification value		
a)Molecular weight	b)Saturation	
c)Rancidity	d)Oxidation	
10. Copper Chromite used as a catalyst i	in the following reaction:	
a) Hydrogenolysis	b) Hydrolysis	
c) Drying	d) Hydrogenation	
11. Polyalkylation is related with the fol	lowing reaction of Benzene:	
a)Nitration	b)Sulphonation	
c) Friedel-crafts alkylation	d) Friedel-crafts a	acylation
12. Naphthalene having the molecular fo	18 THE RESERVE OF STREET, AND THE PROPERTY OF	
	b)C ₁₀ H ₈	
a)C ₁₀ H ₉	d)C ₉ H ₈	
CHAHIA	4)09110	

c)C₉H₁₀ 13. Nitrogen lone pair is the reason for basic property of:

b)Ester a) Aromatic Amines

d) Phenol c) Benzene

14. Naphthalene give Phthalic acid after oxidation reaction with:

b)HNO₃ a)KMnO₄

d)None of the above c)H2SO4

15. Coal tar & Petroleum are the main source of:

(20)

	a) Polynuclear hydrocarbons	b)Amines	
	c) Alcohol	d)Cycloalkanes	
1	6. Saponofication number means the number of _	required to saponify one gram of a fat or oil:	
	a)HCl	ь)КОН	
	c)Nacl	d)KCl	
1	7. Cresol is also known as:		
	a) Aminophenol	b) Ethylphenol	
	c) Methylphenol	d) None of the above	
1	18. Following are the examples of Polynuclear hydrocarbons EXCEPT:		
	a)Naphthalene	b)Phenanthrene	
	c)Anthracene	d)Benzene	
19	9. Aromatic Acids have the acidic property due to		
	a) Carboxylate ion	b) Nitrogen lone pair	
	c) Benzene ring	d) Hydrogen ion	
20). When phenol is treated with neutral FeCl3 solut	tion,it develops:	
	a) Violet color	b) Yellow color	
	c) Green color	d) Nothing happens	
Q.	2 Long Answers (any 2 out of 3) (10 Mark Each)		(20
1.	Define Cycloalkanes with examples & explain I	Baeyer's strain theory & its limitations.	
2.	Define Polynuclear hydrocarbons and write the	synthesis & chemical reaction of Phenanthrene.	
3.		e,orbital picture & with Huckle's rule.	
Q.3	3 Short Answers (any 7 out of 9) (5 Mark Each)		(35
1.	1. Explain basicity of aromatic amines and effect of substituents on basicity.		
2.			
3.	Give a short note on Rancidity & hydrolysis of o	oils.	
4.	그는 그리고 있다. 그리고 있는 그리고 있는 것이 없는 것이다. 그렇게 되었다.		
5.	Write down the procedure and significance of Sa		
6.	Friedel-crafts alkylation with its limitations.		
7.	Write down the structure & Haworth synthesis of	of Naphthalene.	
8.	Explain Sach Mohr's theory of strainless rings.		
9.	Write down the structure and use of: a)Chloram	ine b) DDT	