

End Semester / Reappear (III Semester) Examination Dec 2022

Course: Pharmaceutical Organic Chemistry-II Course Code: BP301T			Time: 3Hrs.
Enrolment no.:			
	So	ection I	
1. Objective type questions. Answer all questions.			20x1=20
i. What is Huckel's rule	?		
(a) 3n+2 (b) 4n+2 (d	c) 2n+2 (d) 1n+2		
	(b) Quinol		(d) Resorcinol an aromatic ring are called:
iv. Which of the followi (a) Ferric chloride test	ng test is not qualitative te (b) Melzer test	est for Phenols (c) Leak test	(d) Lieber Mann test
v. What is chemical form (a) C ₇ H ₆ NO ₃ S	nula of saccharin? (b) C ₇ H ₅ NO ₃ S	(c) C ₇ H ₄ NO ₃ S	(d) None of the above
vi. What is chemical for	mula of Trichloroacetalde	hyde?	
(a) CCl ₂ CHO (b	o) CCl ₃ OH (c) CCl ₃ CI	HO (d) CCl ₄ OH	I
vii. Which term is applie	ed for substances used for	killing mosquito and	other insects:
(a) Pain Killers	(b) Insecticides	(c) Disinfectant	(d) None of the above
viii. Benzene structure v	vas given by		
(a) Kekuleix. Aromatic characteriz(a) Basicity (b) Aromatic	(b) Grignard ration also called as: aticity (c) Electricity (d) N	(c) Morrison Ione of the above	(d) Sorensen
x. DDT is used for	ticides (c) Both A and B	(d) None of these	
xi. Napthelene nucleus s	show:		
(a) 3 Benzene (b) 2	Benzene (c) 4 Benzene	(d) 5 Benzene	
xii. Salicylic acid is the (a)Aspirin(b) Paraceta	-	 (d) Amines	

xiii. Haloform reaction is used to preparefrom methyl ketones.
(a)Carboxylic acids (b) Hydrochloric acid (c) Sulphuric acid (d) None of these
xiv. Phenol react with which compound to show picric acid
(a)Acetic Acid (b) Nitric Acid (c) Benzoic acid (d) Sulphuric acid
xv. Sulphur trioxide in sulphuric acid is called, which is a veryseparate material
(a) Oleum (b) Arenium ion (c) Nitronium ion (d) Benzene
xvi. The molecular formula of benzene is
(a) C_6H_6 (b) C_6H_8 (c) C_6H_{10} (d) None of these
xvii. Oxidising agent used in synthesis of benzoic acid from toluene is
(a) $KMnO_4$ (b) O_3 (c) H_2O_2 (d) None of these
xviii. E ⁺ symbol is denoted as:
(a) Nucleophile (b) Electrophile (c) Both (d) None of the above
xix. Temperature required for synthesis of Diazonium ion is
(a) 25° C (b) 30° C (c) $0-5^{\circ}$ C (d) 100° C
xx. Conversion of Carboxylic acid to Primary amine is named as
(a) Michael Reaction (b) Schmidt Reaction (c) Hoffmann Reaction (d) None of these
Section II
2. Short Answer type questions. Answer any five. 5x7=35
a. Explain various factors for basicity of amines
b. Discuss structure and uses of Phenols.
c. Explain Friedal-Craft alkylation reaction.d. Explain Acid value and Saponification value of fatty acids.
e. Write Baeyer-Villiger Oxidation reaction
f. Give any two reactions of cyclopropane and cyclobutane
g. Write synthesis and chemical reactions of naphthalene.
Section III
Long Answer type questions. Answer any two.
3. Evaluate effect of substituents on reactivity and orientation of mono substituted benzene

- Evaluate effect of substituents on reactivity and orientation of mono substituted benzene compounds towards electrophilic substitution reaction.
- 4. Describe stability of cycloalkanes based on Baeyer's strain's theory.
- 5. Express the generation of Diazonium ion from amines. Give reactions and significance of diazonium ion.
