ORGANIC CHEMISTRY

1.	The credit for syntl	nesizing first organi	c compound in the	laboratory went to
	a) Berzelius	b) Wohler	c) Kolbe	d) Berthelot
2.	b) Chlorination follows:	onverted to ethane owed by the reaction owed by the reaction owed by the wurtz owed by the decarl	on with alcoholic Kon with aqueous Koreaction.	OH.
3.	The product 'D' in	the reaction is		
	$\begin{array}{cc} C_2H_6 & \frac{Cl_2}{\mathbf{h}_{\gamma}} \end{array} \xrightarrow{A}$	$ \begin{array}{ccc} A & AqKOH & B & (i)K_2 \\ \hline (ii) Y \end{array} $	Cr ₂ O ₇ /H ⁺ C Sodalim	e D
	a)Ethane	b) Methane	c) Methanol	d) Ethanol
4.	Identify the produ	ct P in the reaction		
	$CH_3OH \xrightarrow{PI_3} 1$	M alc KCN N H_2O	$H^+ O \xrightarrow{\text{LiAlH}_4} P$	
	a)Methanol	b) Ethanol	c) Methanal	d) Ethanal
5.	Identify the product C ₂ H ₅ OH K ₂ Cr ₂	ot D in the reaction O_7/H^+ A Sodalime	B <u>Cl₂</u> C <u>Aqk</u> hγ	KOH D
	a)Ethanal	b) Methanal	c) Ethanol	d) Methanol

6.	Inductive effect in a) Delocalization o c)Displacement of	of σ Electron.		b) Delocalization d)Displacement o	
7.	The order of +I eff a) $C_3H_7 > C_2H_5 > CH$ c) $H > C_2H_5 > CH_3 >$	H ₃ > H	b) H >	$CH_3 > C_2H_5 > C_3H_7$	
8.	Which of the follow given compounds a)FCH ₂ COOH > CH ₂ b)BrCH ₂ COOH > ClC c)FCH ₂ COOH > ClC d)CH ₃ COOH > BrCH	₃COOH > BrCh CH₂COOH > F(H₂COOH > Br	H₂COO CH₂CO CH₂CO	H >CICH₂COOH OH >CH₃COOH OH >CH₃COOH	the activity in the
9.	Which one of the fa)2-chloropentance	oic acid	b)3-cł	nloropentanoic aci	
10	.Which statement i a)It is permanent of b)It is the property c)It cause permand d)All are correct	effect y of single bor	nd		
11	.Which of the follo	_			
	a)Alkene	b)Ethers		c)Aldehydes	d)Ketones
12	.When H+ approac a)+M effect		=	nd of alkene show c)+E effect	
13	.Which statement i a)It is temporary e b)It is property of c)It take place in tl d) It is a permaner	effect. Pi- Bond. he presence c			

14.Which of a) CN	the following has b) CHO	+R(resonance c) NH ₂	e) effect.	d) NO ₂	
a) Migrat	e effect involves ion of hydrogen at lization of π Electr	•	Delocaliza All are co	ation of σ Elerrect.	ectrons.
 16. Which of the following pairs represents stereo-isomerism? a) Geometrical Isomerism and Linkage Isomerism. b) Geometrical Isomerism and Optical Isomerism. c) Structural Isomerism and Geometrical Isomerism. d) Chain Isomerism and Rotational Isomerism. 					
 17.But-2-ene exhibits cis-trans isomerism due to a) Rotation around C₃—C₄ Sigma Bond b) Restricted rotation around C=C Bond c) Rotation around C₁—C₂ bond d) Rotation around C₂—C₃ double bond 					
18.The lower	st alkene which ca b) Prope	•	ometrical is 1-butene		butene
19.Ordinary a)Nickel p	light is converted brism b)Glass I	-	olarized lig Nicol Prisn		g through a larimeter
20.Optical ad a)Polarim c)Spectro		b)Abbe's	s refracton carbon da		
a)Contain b)Is non-¡ c)Is non s	ic molecule necess is (Chiral / Asymm planar. uper impossible o r impossible on its	etric) Carbon n its mirror in	n atom mage.	vity if it	

22	a)Contains asymmb) is non-planarc) does not contain	ule definitely shows netric carbon atoms n plane of symmet ble on its mirror im	ry	-
23	.Optical isomers w a)Enantiomers		ges of each other a c)Tautomer d)Me	
24	.The conversion of a)Resolution		acemic mixture is kr c)Chirality d)Inv	
25	The process of septicalled a)Racemisation c)Boiling Point	paration of racemic b)Resolutio d)Walden in		– Enantiomers is
26	.Which of the follo a) CH ₃ Cl	wing is the chiral m b) CH ₂ Cl ₂	nolecule c) CHBr ₃	d) CHClBrl
27	The hybridisation a) sp	of carbon atom in (b) sp ²	cyclopropane is c) sp ³	d) d ² sp ³
28	_	ula of Cycloalkane is b) C _n H _{2n+2}		d) C _n H _{2n-4}
29	=	=	Baeyer's strain the c)Cyclohexane	-
30.Angle strain = $\frac{1}{2}$ [109 ⁰ 28 ¹ – bond angle in cycloalkane] which Cycloalkane has maximum angle strain.				
	a)Cyclopropane	b)Cyclobutane	c)Cyclopentane	d) Cyclohexane

a \ D a a : : a ::			
a)Baeyer	b)Sachse	c) Kekule	d) Berzelius
	xane is poured in v	vater, it floats beca	use
• •	e is in chair form		
· ·	is in crown form		
d)Cyclohexane	e is less denser thai	n water.	
33.The Least Ener	getic conformation	n of Cyclohexane is	
a)Chair Confor	mation b)Boat Conformatio	n
c)E, Z Form	d)Cis Form	
34.Benzene was o	discovered by		
a)Dalton	b)Faraday	c)Kekule	d)Boyle
•	, ,	•	, ,
35.The number o	f Sigma & Pi-Bonds	in a molecule of B	enzene
a) 6σ and 9π			
b) 9σ and 3π			
b) 9σ and 3π c) 12σ and 3π			
b) 9σ and 3π			
b) 9σ and 3π c) 12σ and 3π d) 6σ and 6π	f π-Electron in ben	zene molecule are	
b) 9σ and 3π c) 12σ and 3π d) 6σ and 6π	f π-Electron in ben b)3	zene molecule are c)5	d) 6
b) 9σ and 3πc) 12σ and 3πd) 6σ and 6π	b)3		d) 6
b) 9σ and 3π c) 12σ and 3π d) 6σ and 6π 36.The number o a)4	b)3	c)5	d) 6
 b) 9σ and 3π c) 12σ and 3π d) 6σ and 6π 36.The number of a)4 37.Benzene mole	b)3 cule is	c)5 r	d) 6
 b) 9σ and 3π c) 12σ and 3π d) 6σ and 6π 36. The number of a)4 37. Benzene mole a) Trigonal c) Tetrahedral	b)3 cule is b)Plana	c)5 r nedral	d) 6

 9.Benzene does not give addition reaction even though it contain 3 double bonds because a) Double bond change their position rapidly b) Resonance lowers the energy of benzene molecule & leads to greater stabilization. c) Double bond in benzene are strong d) None of the above. 			
40.The overlapping orbitals in Ber a) sp—sp b) p—p c) sp ³ —sp ³ d) sp ² —sp ²	nzene is of the type		
41.The electrophile in the nitrationa)Nitronium ion c)Nitrite ion	on reaction of benzene is b)Nitrinium Ion d)Nitrate ion		
42. During the nitration reaction of a) Solvent c) Sulphonating agent	of benzene concentrated H ₂ SO ₄ is used as b) Dehydrating agent d) Nitronium ion producer.		
43.In benzene, all the six C—C bo a)Resonance c)Isomerism	nd have the same bond length because of b)Hybridization d)Chain Isomerism		
44. The electrophile in the sulphoral a) SO ₂ b) SO ₃	nation reaction is c) SO ₃ H d) SO ₃ ⁺		
45. The function of anhydrous AIC a) To absorb water b) To absorb HCl c) To produce attacking electro d) To produce nucleophile.			

 46.Adding Chlorine to benzene in the present of anhydrous AlCl₃ is an example of a) Addition reaction b) Substitution reaction c) Elimination reaction d) Polymerisation reaction 					
47.In Benzene molecule the carbo		in angle of			
a) 120° b) 180°	c) 109° 28 ¹	d) 60°			
 48.Regarding benzene molecule, which of the following statement is wrong. a) It has six identical carbon atom b) It is an unsaturated compound. c) It is an unsaturated compound and answer tests for unsaturation. a) C—C bond length is identical. 					
49. Which one of the following is f	formed when benzene rin	ng is attacked by the			
elctrophile.					
a) Carbon ion	b) Carbocation				
c) Nucleophile	d) Free-radical				