

[1] CH₃CHO

[2] CH₃CONH₂

Daily practice problems

JEE CHEMISTRY

Topic: Aromatic compound

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Q.1	An organic compound contains about 7.7% carbon. Its acidic sodium extract gives a white precipitate with AgNO ₃ . This precipitate is soluble in the excess of ammonia. The compound is													
	[1] CHCl ₃	[2] CHBr ₃	[3] CHI ₃	[4] CCI										
Q.2	· ·	nd pick up the correct ans	· ·	4										
	Compound	Use												
Q.1 Q.2 Q.3 Q.4 Q.5 Q.6 Q.7 Q.8 Q.10 Q.11	A CHCI ₃	(i) Refrigerant												
	B CCI ₄	-	(ii) Fire extinguisher											
	-	(iii) Anaesthetic												
	The correct answer is													
	[1] A-(i), B-(ii), C-(iii)	[2] A-(iii), B-(ii), C-(i)	[3] A-(iii), B-(i), C-(ii)	[4] None of the above										
Q.3	Ethylidene bromide can be prepared by the following reaction													
	[1] Acetone with PBr ₃	[2] Acetone with PBr ₅	[3] Ethene with HBr	[4] Ethyne with HBr										
Q.4	A compound (A) is for	npound (A) is formed by the reaction of ethylene with bromine which on reacting with aqueo												
	a compound (B). The compound (B) can also be prepared by the reaction of ethylene with the following													
	[1] Baeyer's reagent	[1] Baeyer's reagent												
	[2] Oxygen in the pes	ence of silver catalyst and	I then acidic hydrolysis											
	[3] performic acid and	I the product undergoes ac	cidic hyrolysis											
	[4] All of the above													
	The product of the reaction of methyl magnesium bromide with methanol can also be prepared by the following reaction													
	[1] Reduction of meth	yl bromide	[2] Decarboxylation of sodium ethanoate											
	[3] Reduction of methyl alcohol [4] All of the above													
Q.6	The product of the reaction of sodium acetylide with alkyl halide is													
	[1] A terminal alkyne	[2] A terminal alkene	[3] A non terminal alky	ne [4] [1] and [3] both										
Q.7	Carbon tetrachloride can be prepared by the following reaction													
	[1] CS_2 with CI_2 in the presence of I_2 [2] CS_2 with S_2CI_2 in the presence of I_2													
	[3] CHCl ₃ with Cl ₂ in the presence of l ₂ [4] All of the above													
Q.8	The adduct of which of the following compounds with Grignard's reagent does not form a primary alcohol or hydrolysis													
	[1] O ₂	[2] Oxirane	[3] Methanal	[4] Ethanal										
Q.7 Q.8 Q.9	For the preparation of α -butylene from methyl magnesium chloride, it will be reacted with													
	[1] Propene	[2] Propyl chloride	[3] 3–Chloro propene	[4] 2–Chloro propene										
Q.10	The vapour density of compound is	an organic compound is 23	3.0. It contains 52.17% C a	and 13% H. It gives iodoform test. The										
	[1] Ethanol	[2] dimethyl ether	[3] Acetone	[4] Methanol										
Q.11	Identify Z in the follow	ing reaction												
	CH CN Na/C ₂ H ₅ OH	X HNO ₂ Y KMnC)₄.H ⁺ 7											

[3] CH₃COOH

[4] CH₃CH₂NHOH

- Which of the following is a correct statement Q.12
 - [1] C₂H₂Br reacts with alcoholic KOH to give C₂H₂OH
 - [2] Reaction of C₂H₅Br with metallic Na gives ethane
 - [3] C₂H₅ Br reacts with sodium ethoxide to give ether
 - [4] C₂H₅Br reacts with AgCN to give ethyl cyanide
- Q.13 The product of the reaction of chloromethane with sodium sulphide is
 - [1] Dimethyl sulphide

[2] Methan thiol

[3] Mixture of both the above

[4] None of the above

- Q.14 The compound with highest boiling point is -
 - [1] Ethylene bromide
- [2] Ethylene chloride
- [3] Ethylidene bromide [4] Ethylidene chloride
- Q.15 The main product obtained by the electrolysis of the aqueous ethanolic solution of potassium bromide and sodium carbonate, is
 - [1] Ethyl bromide
- [2] Bromoform
- [3] Ethylene bromide [4] Ethylidene bromide

- Q.16 Which of the following is Swart's reaction
 - [1] $C_2H_5CI + AgF \xrightarrow{\Delta} C_2H_5F + AgCI$
- [2] $2C_2H_5Br + 2Zn \rightarrow (C_2H_5)_2Zn + ZnBr_2$
- [3] $2CHCl_3 + 6Ag \rightarrow CH \equiv CH + 6AgCl$
- [4] $C_2H_5Br + Nal \rightarrow C_2H_5l + NaBr$
- Q.17 The chloroform exposed to air and sunlight gives white precipitate with AgNO₃ solution because it contains
 - [1] Phosgene
- [2] Hydrogen chloride
- [3] Chlorine
- [4] Mixture of all the above
- Q.18 The following type of compounds are obtained by the reaction of a carboxylic acid with lead tetra acetate and lithium chloride in benzene
 - [1] Alkyl halides
- [2] Acid chlorides
- [3] CO₂ + H₂O
- [4] None of the above

HALOBENZENE

Q.19 Which of the following reactions is more suitable than the remaining three for obtaining iodobenzene?

[1]
$$N_2CI + KI \rightarrow$$

[2]
$$\langle \bigcirc \rangle$$
 $N_2CI + HI \rightarrow$

[2]
$$N_2CI + HI \rightarrow$$
[4] $CI + NaI \rightarrow$

- Q.20 The reaction of chlorobenzene with which of the following reagents is not an example of electrophilic substitution reaction?
 - [1] Cl₂ + Fe powder

- [2] Conc. H₂SO₄
- [3] Conc. $HNO_3 + Conc. H_2SO_4$
- [4] CCI₃CHO + Conc. H₂SO₄
- Q.21 At the time of preparation of chlorobenzene from benzne, which of the following can be used as a halogen carrier?
 - [1] A lewis acid

[2] Elements like iron, iodine etc

[3] A tertiary amine base

- [4] All of the above
- Q.22 Which of the following can be obtained by Balz-Schiemann reaction?
 - [1] Fluorobenzene
- [2] Chlororbenzene
- [3] Bromobenzene
- [4] lodobenzene

[A] Sandmeyer reaction [2] Balz-Schemann reaction [C] Rashing process [4] Gattermann reaction [1] A and B [2] A, B and C [3] A, C and D [4] C and D Q.24 Which of the following catalysts is used in the preparation of chlorobenzene by Gattermann reaction? [2] CuCl₂ [4] Cu [1] CuSO₄ [3] Cu₂Cl₂Which of the following catalysts is used in the preparation of chlorobenzene by Sandmeyer's reaction? Q.25 [1] CuCl₂ [2] Cu₂Cl₂ [3] CuSO₄ [4] Cu Q.26 Which of the following compounds is obtained by Borodine-Hunsdiecker reaction of silver benzoate? [1] Fluorobenzene [2] Chlorobenzene [3] Bromobenzene [4] Iodobenzene Q.27 Which of the following reagents is used for obtaining chlorobenzne from p-chlorophenol? [1] Zinc dust [2] Soda lime [3] Sodamide [4] Copper powder Q.28 All of the following properties are exhibited by chlorobenzene, except: [1] Almond-like faint smell [2] Volatility [3] Influammability [4] Nonpoisonous nature Q.29 In Dow process, chlorobenzene is reacted with which of the following reagents? $[A] O_2 + HCI$ [B] NaOH $[C]H_2O$ [4] Na₂CO₃ [1] A and C [2] A and D [3] B and C [4] B and D Q.30 Condensation of chlorobenzene and chloral hydrate is carried out in the presence of concentrated sulphuric acid for obtaining? [1] D.D.T. [2] Chloropicrin [3] B.H.C [4] Dichlorodiphenylethane

Which of the following reactions can be used to obtain chlorobenzene from benzenediazonium chloride?

Q.23

Answer Key

Qus.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	4	2	4	4	4	1	4	4	3	1	3	3	1	1	2	1	2	1	1	4
Qus.	21	22	23	24	25	26	27	28	29	30										
Ans.	4	1	3	4	2	3	1	4	4	1										