



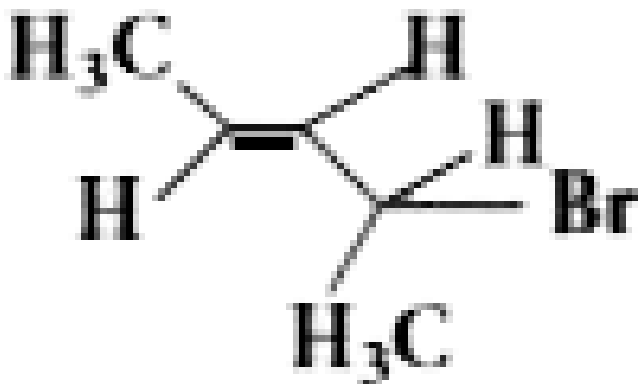
CHEMISTRY

NCERT - FULL MARKS CHEMISTRY(TAMIL)

HALOALKANES AND HALOARENES

Evaluate Objective Type Questions Mcq

1. The IUPAC name of



- A. 2-Bromo pent -3- ene
- B. 4-Bromo pent – 2 – ene
- C. 2-Bromo pent – 4 – ene
- D. 4-Bromo pent – 1 – ene

Answer: B



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2. Of the following compounds, which has the highest boiling point?

- A. n -Butyl Chloride
- B. Isobutyl chloride
- C. t-Butyl chloride
- D. n-propyl chloride

Answer: A



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3. Arrange the following compounds in increasing order of their density



A. $D < C < B < A$

B. $C > B > A > D$

C. $A < B < C < D$

D. $C > A > B > D$

Answer: A



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4. With respect to the position of $-Cl$ in the compound $CH_3 - CH = CH - CH_2 - Cl$, it is classified as

A. Vinyl

B. Allyl

C. Secondary

D. Aralkyl

Answer: B



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5. What should be the correct IUPAC name of diethyl chloromethane?

A. 3- Chloro pentane

B. 1 - Chloropentane

C. 1 -Chloro-1, 1, diethyl methane

D. 1- Chloro -1-ethyl propane

Answer: A



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6. C -X bond is strongest in

A. Chloromethane

B. Iodomethane

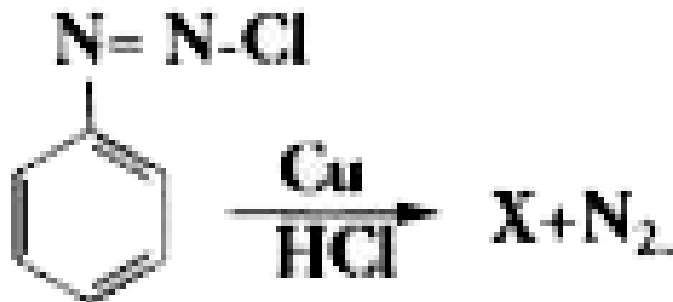
C. Bromomethane

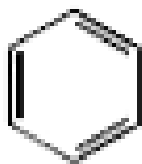
D. Fluoromethane

Answer: D

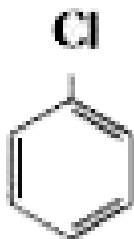
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7. In the reaction X is _____

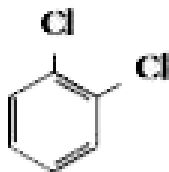




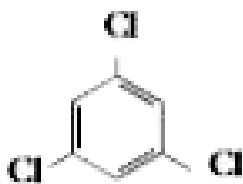
A.



B.



C.



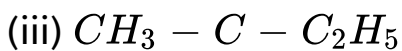
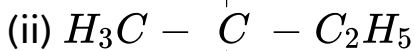
D.

Answer: B



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8. Which of the following compounds will give racemic mixture on nucleophilic substitution by OH⁻ ion?



A. (i)

B. (ii) and (iii)

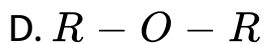
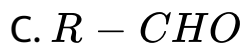
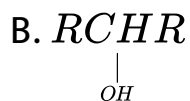
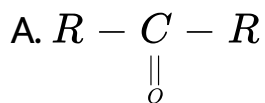
C. (iii)

D. (i) and (ii)

Answer: C

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9. The treatment of ethyl formate with excess of RMgX gives



Answer: C

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10. Benzene reacts with Cl_2 in the presence of $FeCl_3$ and in absence of sunlight to form

- A. Chlorobenzene
- B. Benzyl chloride
- C. Benzal chloride
- D. Benzene hexachloride

Answer: A



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11. The name of $C_2F_4Cl_2$ is _____

A. Freon - 112

B. Freon - 113

C. Freon - 114

D. Freon - 115

Answer: C



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12. Which of the following reagent is helpful to differentiate ethylene dichloride and ethylidene chloride?

A. Zn / Methanol

B. KOH / ethanol

C. aqueous KOH

D. $ZnCl_2$ / $ConHCl$

Answer: C



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13. Match the compounds given in Column I with suitable items given in Column II

	Column I (Compound)		Column II (Uses)
A	Iodoform	1	Fire extinguisher
B	Carbon tetra chloride	2	Insecticide
C	CFC	3	Antiseptic
D	DDT	4	Refrigerants

A. A → 2 B → 4 C → 1 D → 3

B. A → 3 B → 2 C → 4 D → 1

C. A → 1 B → 2 C → 3 D → 4

D. A → 3 B → 1 C → 4 D → 2

Answer: D



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14. Assertion: In mono haloarenes, electrophilic substitution occurs at ortho and para positions.

Reason: Halogen atom is a ring deactivator

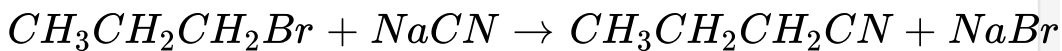
- A. If both assertion and reason are true and reason is the correct explanation of assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

Answer: B



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15. Consider the reaction,



This reaction will be the fastest in

- A. ethanol
- B. methanol
- C. DMF (N, N' - dimethyl formamide)
- D. water

Answer: C



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16. Freon-12 is manufactured from tetrachloro methane by

- A. Wurtz reaction
- B. Swarts reaction
- C. Haloform reaction
- D. gattermann reaction

Answer: B



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17. The most easily hydrolysed molecule under SN1 condition is

- A. allyl chloride
- B. ethyl chloride
- C. isopropyl chloride
- D. benzyl chloride

Answer: A



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18. The carbo cation formed in SN1 reaction of al kyl halide in the slow step is

- A. sp^3 hybridised
- B. sp^2 hybridised

C. sp hybridised

D. none of these

Answer: B



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19. The major products obtained when chlorobenzene is nitrated with HNO_3 and con H_2SO_4

A. 1-Chloro-4-nitrobenzene

B. 1- chloro-2-nitrobenzene

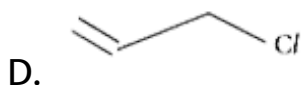
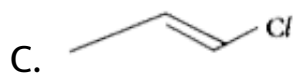
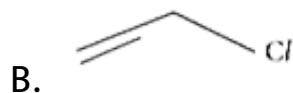
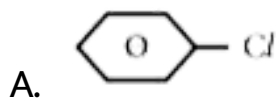
C. 1- chloro-3-nitrobenzene

D. 1- chloro-1-nitrobenzene

Answer: A

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20. Which one of the following is most reactive towards nucleophilic substitution reaction ?



Answer: D



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21. Ethylidene chloride on treatment with aqueous KOH gives

- A. acetaldehyde
- B. ethyleneglycol
- C. formaldehyde
- D. glyoxal

Answer: A

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22. The raw material for Rasching process

A. chloro benzene

B. phenol

C. benzene

D. anisole

Answer: C



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23. Chloroform reacts with nitric acid to produce

A. nitro toluene

B. nitro glycerine

C. chloropicrin

D. chloropicric acid

Answer: C



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24. acetone $\xrightarrow[\text{(ii) } H_2O / H^{-1}]{\text{(i) } CH_3MgI}$ X, X is

A. 2-propanol

B. 2-ethyl-2-propanol

C. 1-propanol

D. acetone

Answer: B

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25. Silverpropionate when refluxed with Bromine in carbontetrachloride gives

- A. propionic acid
- B. chloro ethane
- C. bromo ethane
- D. chloro propane

Answer: C

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Evaluate

1. Starting from CH_3MgI , how will you prepare the following ?

(i) Acetic acid

(ii) Acetone

(iii) Ethyl acetate

(iv) Iso propyl alcohol

(v) Methyl cyanide

A. Acetic acid

B. Acetone

C. Ethyl acetate

D. Iso propyl alcohol

Answer:



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