

D.A.V PUBLIC SCHOOL, Dhurwa Ranchi

Summer holiday H.W (Chem.) 2022-2023

Class – XII

Q1.) Write the structure of the following compounds:-

- i) 2-chloro-3-methyl pentane
- ii) 1-chloro-4-ethyl cyclohexane

Q2.) Why is sulphuric acid not used during the reaction of alcohols with KI?

Q3.) Arrange the compounds in order of increasing boiling points

1-chloropropane, Isopropylchloride, 1-chlorobutane

Q4.) Identify 'A' and 'B' in the reaction



Q5.) Name the following compounds according to IUPAC system

- i) $(\text{CH}_3)_2\text{CHCH}(\text{Cl})\text{CH}_3$
- ii) $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{C}_2\text{H}_5)\text{Cl}$

Q6.) Write the equation for the preparation of 1-iodobutane from Butan-1-ol

Q7.) How will you bring about the following conversion?

- i) Ethanol to but-1-yne
- ii) Ethane to bromoethane

Q8.) Explain why- Grignard reagents should be prepared under anhydrous conditions

Q9.) Give the uses of Freon-12, D.D.T, carbon tetrachloride and Iodoform?

Q10.) p-dichlorobenzene has higher melting point and lesser solubility than these of o- and m- isomers. Discuss?

Q11.) How the following conversions can be carried out?

- a) Chloroethane to butane
- b) Benzene to ethylbenzene
- c) Aniline to phenyl isocyanide

Q12.) What happens when -

- i) Bromobenzene is treated with Mg in the presence of dry ether
- ii) Ethyl chloride is treated with aqueous KOH

Q13.) Arrange the compounds CH_3F , CH_3I , CH_3Br , CH_3Cl in order of increasing reactivity in bimolecular nucleophilic substitution (S_N^2) reactions

PROJECT

TOPIC:-

Q1.) To study the quality of Casein present in different samples of milk.

Q2.) Preparation of soyabean milk and its comparison with natural milk with respect to curd formation, the effect of temperature etc.

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