

## CLASS XII GUESS PAPER CHEMISTRY

## REASONING QUESTIONS OF ORGANIC CHEMISTRY

- 1. Explain why:
  - a) Dipole moment of chlorobenzene is lower than that of cyclohexyl chloride.
  - b) Alkyl halides , though polar, are immiscible in water.
  - c) Grignard reagent should be prepared under anhydrous conditions.
  - d) p-dichlorobenzene has higher melting point than o-and m- isomer.
  - e) Alkyl halides undergo nucleophilic substitution reactions.
  - f) Ortho-nitrophenol is less soluble in water than para-nitrophenol.
  - g) Phenols do not give protonationation reactoion easily.
  - h) Ehers can be cleaved with acids and not basess.
  - i) O-nitrophenol is more acidic than 0-methoxyphenol.
  - j) Dipole moment of methanol is higher than that of phenol.
  - k) Dipole moment of aldehydes and ketones are higher than alcohols.
  - I) Dimethyl cadmium is used in the preparation of ketones from acid chlorides But not from grignard reagent.
  - m) Cyclohexanone forms cyanohydrin in good yield but 2,2,6-trimethyl-cyclohexanone Does not.
  - n) There are two  $-\mathrm{NH}_2$  groups in semicarbazide,however,only one is involved in the formation

Of semicarbazones.

o) Fuorine is more electronegative than chlorineeven then,p-fluorobenzoic acid is a weaker

Base than p-chlorobenzoic acid.

- p) Carboxyllic acids do not give the characteristic reactions of carbonyl group.
- q) Carboxyllic acid is much more stronger than phenol though phenolate ion has much more

Resonating structures than carboxylate ion.

r) Aldehydes are more reactive than ketones in nucleophilic readtions.

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- s) Most aromatic acids are solids but the acids of acetic acid group are mostly liquids.
- t) During preparation of ammonia derivatives of aldehydes and ketones,pH of medium Is very much controlled.
- u) Electrophilic substitution in benzoic acid takes place at meta position.
- v)  $2^{\circ}$  and  $3^{\circ}$  amines can not be prepared by Gabriel Pthalimide synthesis.
- w) Isocyanides are not soluble in water.
- x) Bromination of aniline can not be controlled easily.
- y) Ethyl amine is soluble in water but aniline is not.
- z) Aniline does not undergo Friedel Craft reaction.
- aa) Diazonium salts of aromatic amines are more stable than aliphatic amines.

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