

UNIT TEST-11A
(HYDROXY COMPOUNDS AND ETHERS)

CLASS : XII**SUB : CHEMISTRY****(page no 104 to 122)****MARK : 35****TIME : 1.30 HRS****PART-I****I. Choose and write the correct answer :****5 X 1 = 5**

- Which one of the following is the strongest acid
a) 2 - nitrophenol b) 4 – chlorophenol c) 4 – nitrophenol d) 3 – nitrophenol
- Which of the following compounds on reaction with methyl magnesium bromide will give tertiary alcohol.
a) benzaldehyde b) propanoic acid c) methyl propanoate d) acetaldehyde
- Ketone react with Grignard reagent to give _____
a) primary alcohol b) secondary alcohol c) tertiary alcohol d) none of these
- Secondary alcohol do not react with KOH because
a) no alpha hydrogen b) no beta hydrogen c) no gamma hydrogen d) none of these
- Which one of the following is used for sweetening agent
a) methanol b) ethanol c) glycol d) glycerol

PART-II**II. Answer any three questions (q.no.10 is compulsory)****3 x 2 = 6**

- Explain – Hydroboration
- How will you prepare butan-2-ol from Grignard reagent?
- How are Convert glycerol to acrolein ?
- What are the uses of glycerol ?
- How is crotyl alcohol obtained by reduction reaction ?

PART-III**III. Answer any three questions****3 x 3 = 9**

- Explain Swern oxidation
- Distinguish between 1^o, 2^o and 3^o alcohols using Luca's reagent.
- How are the nitroglycerin prepared from glycerol ?
- How will you prepare the following by using grignard reagent ?
a) Propan-1-ol b)propan-2-ol
- Write note biological oxidation ?

PART-IV**IV. Answer any three questions****3 x 5= 15**

- Write a note on Sayzteff's rule ?
- Distinguish between 1^o, 2^o and 3^o alcohols using Victor Meyer's test
- i) What is Baeyer's reagent ? how it is useful to convert ethene to ethane 1 2 diol ?
ii) How is ethylene glycol converted into 1,4 dioxane ?
- How are the following conversion effected?
i) ethylene glycol → acetaldehyde
ii) glycerol → acrolein
- i) How are the glycerose prepared from glycerol ?
ii) Write the glycol react with following reagent i) dil H₂SO₄ ii) Con H₂SO₄
