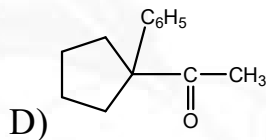
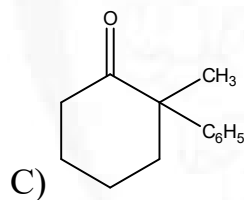
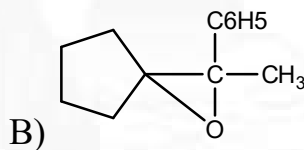
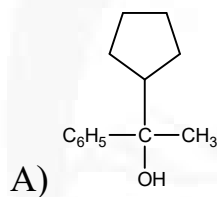
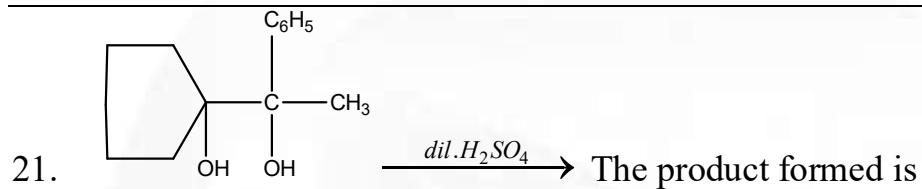


CHEMISTRY:**Max.Marks : 60****SECTION I****Single Correct Answer Type**

This section contains **10 multiple choice questions**. Each question has four choices (A), (B), (C) and (D) out of which **ONLY ONE is correct**.



22. Acetophenone can be converted to ethyl benzene using

A) H_2/Ni

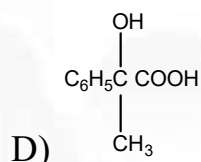
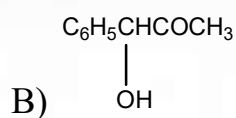
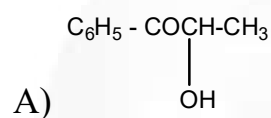
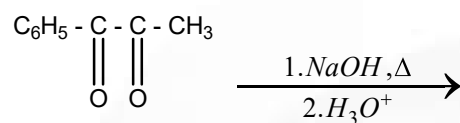
B) Birch reduction

C) M.P.V reduction

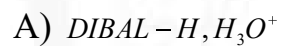
D) Wolff kishner reduction

23. Formation of acetal is possible in
- A) acidic medium B) basic medium
- C) neutral medium D) in both acidic and basic medium
24. Acetaldehyde is treated with HCN and the cyanohydrin formed on hydrolysis gives lactic acid. It is.
- A) d-isomer B) *l*-isomer
- C) d, *l* mixture D) meso isomer
25. Condensation reactions with NH_2OH , NH_2NH_2 etc taking place with aldehydes and ketones take place at pH
- A) 7 B) above 7 C) around 4 D) 1
26. Which is more convenient to reduce group $\begin{array}{c} \text{---C---} \\ || \\ \text{O} \end{array}$ (without affecting Br) in $\text{CH}_2\text{Br}-\text{CH}_2-\text{CHO}$
- A) clemmensen B) Wolff-kishner
- C) mozingo D) All

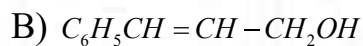
27. The product formed in the following reaction is



28. The reagent required to convert $\text{C}_6\text{H}_5\text{CN}$ to $\text{C}_6\text{H}_5\text{COCH}_3$ is



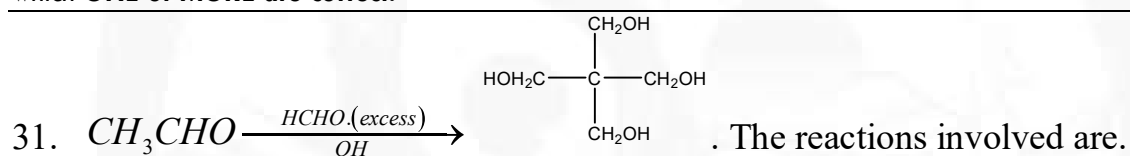
29. $\text{C}_6\text{H}_5 - \text{CH} = \text{CH} - \text{CHO} \xrightarrow{\text{NaBH}_4}$. The product formed is



30. Acetaldehyde, when treated with aluminium ethoxide gives

**SECTION II****Multiple Correct Answer(s) Type**

This section contains **5 multiple choice questions**. Each question has four choices (A), (B), (C) and (D) out of which **ONE or MORE are correct**.



A) aldol

B) cannizzaro

C) KOH

D) KOH LAH

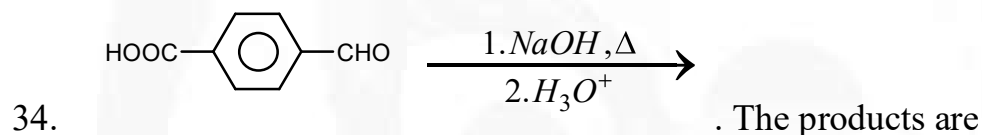
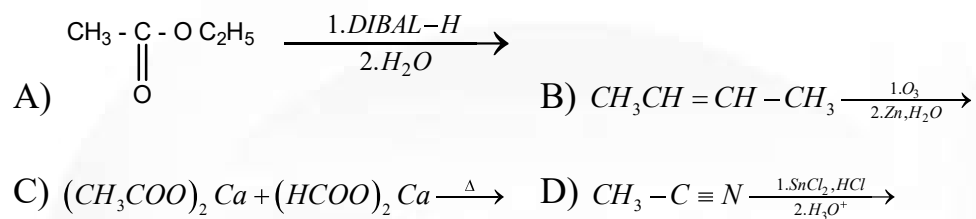
32. Acetaldehyde and formaldehyde can be distinguished with

A) Cl_2 , NaOHB) $\text{K}_2\text{Cr}_2\text{O}_7$, Con. H_2SO_4

C) Benedict solution

D) 2,4-DNPH

33. Acetaldehyde is obtained from which of the following reactions ?



- A) a dicarboxylic acid B) a phenolic acid
- C) a hydroxy acid D) a diol

35. Aldehydes and ketones can be identified by using

- A) 2,4-dinitro phenyl hydrazine B) semicarbazide
- C) Hydroxyl amine D)Hydrazine

SECTION III

Integer Answer Type

This section contains **5 questions**. The answer to each question is single digit integer, ranging from 0 to 9 (both inclusive).

36. How many of the following give stable hydrates formaldehyde, cyclopropanone, ninhydrin acetone, hexafluoro acetone.
37. How many of the following are more reactive than benzaldehyde towards nucleophilic addition
p-methylbenzaldehyde, p-nitrobenzaldehyde, p-anisaldehyde
38. Acetaldehyde gives a product with con. H_2SO_4 . The number of oxygen atoms present in the product are.

