

1. The reaction between an ester and excess of Grignard reagent shall finally result in a:
 - a. Primary alcohol
 - b. Secondary alcohol
 - c. Tertiary alcohol
 - d. Ketone

Answer: c

2. The structural formula of alcohol that on dehydration would give 2-methylpropene as the major product is
 - a. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$
 - b. $(\text{CH}_3)_2\text{CH}-\text{CH}_2\text{OH}$
 - c. $\text{CH}_3-\text{CHOH}-\text{CH}_2\text{CH}_3$
 - d. $\text{CH}_3\text{CHOHCH}_3$

Answer: b

3. 2-methyl propene upon hydroboration-oxidation gives
 - a. 2-methyl-1-propanol
 - b. 2-methyl-1-propanal
 - c. 2-propanol
 - d. 1-propanol

Answer: a

4. In Lucas test of alcohols, the appearance of turbidity is due to formation of :
 - a. Aldehydes
 - b. Ketones
 - c. Acid chlorides
 - d. Alkyl chlorides

Answer: d

5. Which of the following :
 - I. $\text{R}-\text{CO}-\text{CO}-\text{R}$
 - II. $\text{R}-\text{CO}-\text{CHOH}-\text{R}$
 - III. $\text{R}-\text{CHOH}-\text{CH}_2-\text{CHOH}-\text{R}$
 - IV. $\text{R}-\text{CHOH}-\text{CHOH}-\text{R}$

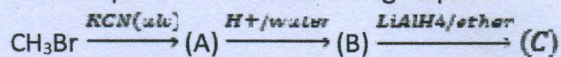
Will be oxidized by HIO_4 ?

- a. I, II and III
- b. I, III and IV

- c. I, II and IV
- d. II, III and IV

Answer: c

6. The end product of the following sequence is:



- a. CH_3CHO
- b. $\text{CH}_3\text{CH}_2\text{OH}$
- c. CH_3COCH_3
- d. CH_4

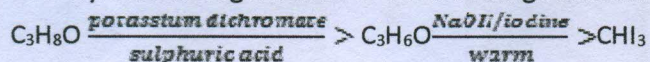
Answer: b

7. When isopropyl alcohol vapours are passed over heated copper it gives:

- a. Acetone
- b. Ethyl alcohol
- c. Methyl alcohol
- d. Acetaldehyde

Answer: a

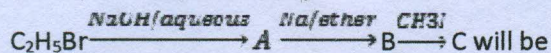
8. Identify the starting material in the following reaction:



- a. 1-propanol
- b. 2-propanol
- c. Methoxy ethane
- d. Propanal

Answer: b

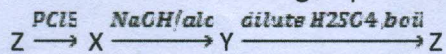
9. Product C in the reaction,



- a. $\text{CH}_3\text{CH}_2\text{CH}_3$
- b. $\text{CH}_3\text{CH}_2\text{I}$
- c. CH_3CH_3
- d. $\text{CH}_3\text{OCH}_2\text{CH}_3$

Answer: d

10. What is Z in the following sequence of reactions?



- a. $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$

