#### UNIT NO: 14

## HYDROCARBONS

Organic compounds that burn with a sooty flame are;

(A) Alkanes (B) Alkenes

(C) Arenes (D) Alkynes

 Compound X decolourize bromine as well as Baeyer's reagent. What is the possible formula of compound X;

(A)  $C_4H_{10}$  (B)  $C_4H_8$ (C)  $C_4H_9Cl$  (D)  $C_5H_{11}O$ 

3) Which of the following alcohols will most readily converted into alkene

(A) CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>OH (B) CH<sub>3</sub>CH(OH)CH<sub>2</sub>CH<sub>3</sub> (C) (CH<sub>3</sub>)<sub>3</sub>C(OH) (D) CH<sub>3</sub>OH

4) The product of ozonolysis of CH<sub>3</sub>CH<sub>2</sub>CH = CHCH<sub>3</sub> will be:

(A) Ethanal, Acetone (B) Ethanal, Propanal

(C) Propanal, Acetone (D) Acetone, Formaldehyde

5) The product obtained by the reaction of toluene with CH<sub>3</sub>Cl in the presence of AlCl<sub>3</sub> is:

(A) o – Xylene (B) p – Xylene

(C) m – Xylene (D) Both A and B

6) Which compound react slower than benzene in electrophilic substitution?

(A) Phenol (B) Toluene (C) Nitrobenzene (D) Aniline

Identify (X) and (Y) in the following reaction.

 $(Y) \leftarrow ColdKMnO_1/OH - CH_3CH = CHCH_3 \xrightarrow{KMnO_1/OH} (X)$ 

	x	Y	
A	Ethylene Glycol	Acetic acid	
В	Glycol	Glycerol	
C	Acetic acid	Glycerol	
D	Acetic acid	Glycol	

(A) A (B) B (C) C (D) D

8) Toluene with excess of chlorine and sun light give the end product:

(A) Chlorobenzene (B) Benzotrichloride

(C) Benzal chloride (D) Benzyl chloride

Which type of functional group is present in the products obtain as a result of acylation of benzene?

(A) Ester (B) Aldehyde

(C) Carboxylic group (D) Ketonic group

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