

Date Planned ://	Daily Tutorial Sheet – 11	Expected Duration : 90 Min
Actual Date of Attempt ://	Numerical Value Type for JEE Main	Exact Duration :

**126.** How many of the following compounds give haloform test?

- 127. How many of the following compounds give silver mirror with Tollen's reagent? OH O OH O OH3CHO, HCHO, CH3COOH, HCOOH, PhCOOH,  $CH_3 C \equiv CH$ ,  $CH_3 CH C CH_3$
- **128.** How many of the following compounds give Fehling's test? HCHO, PhCHO, PhCOOH,  $CH_3COCH_3$
- **129.** What is the oxidation state of carbonyl carbon in Acetophenone?
- **130.** Which of the following pairs can be distinguished using NaHSO<sub>3</sub> test?

$$\begin{array}{c} & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

131.  $CH_{3} - C \longrightarrow CH_{3} \longrightarrow CH_{3} \longrightarrow C - CH_{3}$   $C - CH_{3} \longrightarrow C - CH_{3}$ 

For complete reaction of one mole of given compound, x is equal to......

How many 'O' atoms are present in A?

Number of carbon atoms is (A) are \_\_\_\_\_



**134.** How many of the following compounds give 2, 4 – DNP test?

$$\begin{array}{c} & \text{O} \\ \parallel \\ \text{CH}_3 \text{ CHO, CH}_3 \text{ CH}_2 \text{CHO, CH}_3 - \text{C} - \text{CH}_3 \text{, glucose} \\ \text{CH}_3 \text{ CH}_2 - \text{C} - \text{OEt, PhCHO, PhCOOH} \\ \parallel \\ \end{array}$$

**135.** How many of the following compounds are more reactive than  $CH_3 - C - CH_3$  for nucleophilic addition

reaction?

136.

HCHO, 
$$\operatorname{CH_3}$$
 CHO,  $\operatorname{CH_3}$  CH $_2$  —  $\operatorname{C}$  —  $\operatorname{CH_3}$  O  $_{\parallel}$  Ph —  $\operatorname{C}$  —  $\operatorname{CH_3}$ ,  $\operatorname{CH_3}$  CH $_2$  CHO

HO
OH
OH
$$x \text{ HIO}_4$$
 $x = y \text{ (CH}_3\text{CO)}_2\text{O}$ 
 $y = y = y \text{ (CH}_3\text{CO)}_2\text{O}$ 

Sum of x and y is \_\_\_\_\_.

137. How many of the following compounds give aldol reaction?

$$CH_3CH_2CHO$$
,  $CH_3 - \overset{||}{C} - CH_3$ ,  $CH_3CHO$   $CH_3 - \overset{||}{C} - CH_2CH_3$ ,  $H - \overset{||}{C} - H$ ,  $Ph - \overset{||}{C} - H$ ,  $CH_3CH_2COOH$ 

138. 
$$CH_3 - C - CH_2CH_2 - C - H \xrightarrow{\text{dil}}_{\text{NaOH}, \Lambda} (A)$$

Number of atoms lying in one plane in product A are \_\_\_\_\_

139. How many of the following compounds give cannizzaro reaction?

**140.** What is order of Cannizzaro reaction?