

CBSE TEST PAPER-02

CLASS - X (Carbon and its compound)

1.	Rectified spirit is		(1)
	(a) 50% ethanol	(b) 80% ethanol	
	(c) 95% ethanol	(d) 40 to 50%	
2.	Dilute alkaline KMnO ₄ solution is		(1)
	(a) an oxidising agent	(b) a reducing agent	
	(c) a bleaching agent	(d) none of these	
3.	The by product in soap industry is		(1)
	(a) Isoprene	(b) Ethylene glycol	
	(c) glycerol	(d) butane	
4.	An example of soap is		(1)
	(a) $C_{15}H_{31}COONa$	(b) CH ₃ COONa	
	(c) C_6H_5COONa	$(d) C_{17} H_{35} OSO_3 Na$	
5.	The number of C-H bonds is ethane C ₂ H ₆ molecule are		(1)
	(a) 4	(b) 6	
	(c) 8	(d) 10	
6.	Write the structures of		(2)
	(i) Ethanoic acid	(ii) Hex anal	
7.	Name the following compounds		(2)
	(a) $CH3 - \overset{H}{C} = 0$	(b) $CH_3 - CH_2 - OH$	
8.	Which organic compound is added to n	nake ethanol unfit for drinking purposes?	(2)
	What is the name of the mixture formed?		
9.	Write a test to identify the presence of ethanoic acid?		(2)
10.	Give names of the following		(3)



(a) An aldehyde derived from ethane

(b) Ketone derived from butane (c) Compound obtained by the oxidation of ethanol by chromic anhydride 11. What is meant by denatured alcohol? (3)What is the need to denature alcohol? 12. Write chemical equations of the reactions of ethanoic acid with (3) (a) Sodium (b) Sodium carbonate (d) The presence of conc H₂So₄ (c) Ethanol Complete the reaction and names of the products formed 13. (3)(i) $CH_3COOH + NaOH \xrightarrow{heat}$ (ii) $C_2H_5OH + O_2\frac{alkaline}{KMnO}$. (iii) $CH_3COOH + C_2H_5O_4 \stackrel{Conc H_2SO_4}{\longrightarrow}$ (a) Name the gas evolved during fermentation process? 14. (5)(b) What role is played by yeast in the conversion of cane sugar $(C_{12}H_{22}O_{11})$ to ethanol? (c) How may the following be obtained from pure ethanol? Express chemical reactions by the chemical equations. (i) Sodium ethoxide (ii) Ethyl ethanoate (iii) Ethanal