

**Date:** 21-01-2022

**Class:** 10<sup>th</sup> Genesis

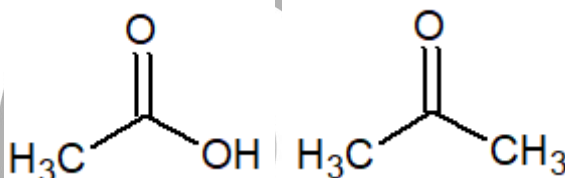
**Subject:** Science

**Test code:** SEP15(21041317)

### Chemistry

*M. Marks: 20*

1. (a) Why are covalent compounds generally poor conductors of electricity? 2
- (b) Name the following compounds.



2. (a) Give a chemical test to distinguish between saturated and unsaturated hydrocarbons. 2
- (b) Name the carbon compound which on heating with excess of concentrated sulphuric acid at 443K gives ethene.
3. Give reasons for the following. 2
  - (a) Carbon forms a very large number of compounds
  - (b) Air holes of gas burner are adjusted when heated vessels get blackened by flame.
4. (a) What is ethanoic acid? Write the formula of functional group present in acid. 3
- (b) What special name is given to its 5-8% Solution in water?
- (c) How does ethanoic acid react with sodium carbonate? Give chemical equation of the reaction.
5. (a) Draw the structures of the following. 3
  1. Hexanal
  2. Iso-butane
- (b) Explain cleansing action of soaps.
6. (a) What is meant by esterification? 3
- (b) How will you obtain ethanoic acid from ethanol?
- (c) Why reaction between methane and chlorine Considered as Substitution Reaction
7. (a) Explain with the help of examples 5
  1. Hydrogenation Reaction

## 2. Saponification Reaction

(b) Write two Advantages of detergents over soaps.

