

**Class-10(Chemistry)**

**Revision work sheet for mid-term assessment**

**Chapter-11**

**Mineral resources: Fossils**

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❖ **Creative questions:**

- 'X' and 'Y' are two gaseous compounds containing three carbons. When they are passed through bromine water, 'X' can remove the color of bromine but 'Y' cannot.
  - What is unsaturated hydrocarbon?
  - What is meant by condensation polymerization reaction? Write with example.
  - Is it possible to prepare organic acid from the compound 'X'? Explain.
  - 'X' can remove the color of bromine water but 'Y' cannot. Analyze the fact with chemical equations.
- (i)  $C_2H_4$       (ii)  $CH_3CH_2OH$       (iii)  $HCHO$ 
  - What is rectified spirit?
  - What do you mean by polymer?
  - How can you prepare polyethylene and glycol from compound (i)?
  - Is there any importance in industry of compound (ii) and (iii)? Analyze with logic.
- $CH_4$       (ii)  $C_2H_2$       (iii)  $C_4H_8$ 
  - What is alkyl group?
  - Why alkenes are more reactive than alkanes?
  - How can you convert the compound (ii) into the compound (i)?
  - Is it possible to prepare a fatty acid from the compound (iii)? Explain.
- X (alkane with 1 carbon) and Y ( aldehyde with 1 carbon )
  - What is the monomer of PVC?
  - What is meant by homologous series?
  - Explain with equations how to produce Y from X.
  - Y is really important in different uses. But it is really harmful to our health. Evaluate.

Questions:

1. What is fossil fuel?
2. What is gasohol?
3. What is gasoline?
4. What is aromatic compound/ aromatic hydrocarbon?
5. What is functional group?
6. Define homologous series.
7. What is alkyl group?
8. Write down the general formula and functional group of alkane, alkene, alkyne, alcohol, aldehyde and fatty acid (carboxylic acid)
9. Why alkanes are called paraffin?
10. Why alkenes are known as olefins?
11. Why alkenes are more reactive than alkanes?
12. Explain which is less flammable between ethane and ethane.
13. Discuss three preparation methods of alkane.
14. Discuss the reaction of methane with chlorine?
15. Mention the combustion reaction of alkane(methane).
16. Discuss two preparation methods of alkene.
17. Discuss the reaction of hydrogen and water with alkene.
18. Discuss the two unsaturation tests of hydrocarbons.
19. Discuss the polymerization reactions of alkenes.
20. How is ethyne prepared from calcium carbide? Write with the reaction.
21. Explain with equations how to produce methanal (aldehyde) from methane(alkane).
22. How can you prepare polymer and glycol from ethene? Explain.
23. Discuss the preparation of alkene from ethanol/ ethanoic acid.
24. Differentiate between saturated and unsaturated hydrocarbons.
25. Define addition polymerization and condensation polymerization with example.
26. Write down the preparation of Nylon 6:6 with reaction.
27. Explain the preparation of methane from potato/ ethanol.
28. Potato can be used as alternate to fossil fuel-Explain.
29. Methanal is really important in different uses. But it is really harmful to our health. Evaluate.
30. Analyze the importance of compound ethanol and methanal in industry.