

# Oxyque

Sub: Science (Chemistry)

Class: X

Marks: 25

Time: 30 minute

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## General Instructions

1. Read the questions carefully before attempting them.

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1. Draw the electronic dot structure of  $C_2H_6$ . ..... 1
  2. Write the IUPAC name of  $H_3C-C\equiv CH$  ..... 1
  3. Atomic size across a period ----- (increases,decreases,remains constant) 1
  4. When carboxylic acid and alcohol react a compound is formed. This compound belongs to a family of organic compounds called ----- 1
  5. What is saponification?  
..... 1
  6. What is meant by saturated hydrocarbon?  
..... 1
  7. Define functional group. 1
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8. Give example of homologous series. 1
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9. Balance the reactions by completing them. 2
    - i)  $CH_3CH_2OH + KMnO_4 (alk) \rightarrow$  ----- + -----
    - ii)  $CH_3COOH + Na_2CO_3 \rightarrow$  ----- + ----- + -----
  10.  $CH_3CH_2OH + Na \rightarrow$  ----- + ----- 1  
 $CrO_3$
  11.  $CH_3CH_2OH + \rightarrow$  ----- + ----- 1
  12. What do you mean by catenation? 1
  13. What are the demerits of Mendeleev's periodic table? 4
  14. Why atomic size decrease with increase in atomic number? 3
  15. What are the limitations of Dobereiner's triads? 3
  16. Why Scientists were inspired by Mendeleev's periodic table? 2