

## ASSIGNMENT 4- HOMOLOGOUS SERIES AND NOMENCLATURE

Name- \_\_\_\_\_ Grade- \_\_\_\_ Date- \_\_\_\_\_ MM- 15

Answer the following questions-

Q1- Name two aspects which may be same or similar among the members of homologous series? (2)

Q2- Fill in the blanks-

a) Successive members of the same homologous series differ by \_\_\_\_\_ unit or \_\_\_\_\_ mass units.

b) Members of homologous series show change in physical properties because of the difference in their \_\_\_\_\_. (2)

Q3- Choose the correct option-

a) Members of homologous series have \_\_\_\_\_ (same/ different) general formula.

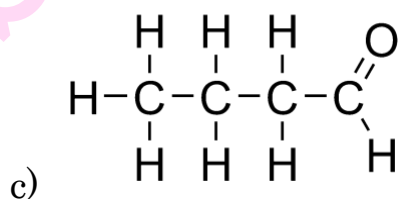
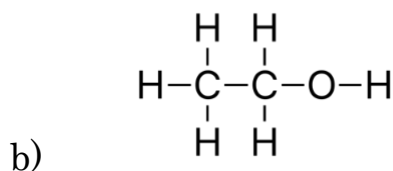
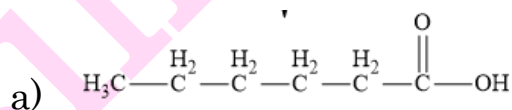
b) Boiling point of members of homologous series \_\_\_\_\_ (increases/ decreases) with increase in molecular mass. (2)

Q4- Show that propanal, butanal and pentanal belong to the same homologous series. Draw their structural formula to explain your answer. (3)

Q5- Draw the structural formula for the following-

a) Pentene      b) Bromo ethane      c) Propanone (3)

Q6- Name the following-



(3)