

# SOME BASIC PRINCIPLES AND 1.

## Lecture-5 TECHNIQUES 11/12/2020

### CHEMISTRY, CLASS-XI, UNIT-12

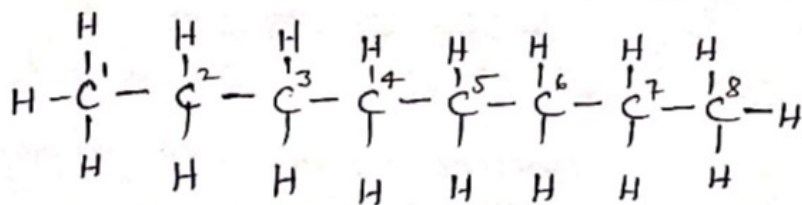
#### SESSION 2020-22

## Structure Representation of Organic Compounds Continued..

- \* The structure of organic compound can be represented by using only lines. This representation is known as bond-line structure.
- \* In bond-line structure of organic compounds, carbon and hydrogen atoms are not shown and the lines representing carbon-carbon bonds are drawn in a zig-zag fashion.

Example;

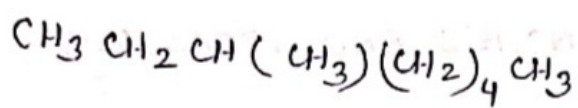
① 3-methyl octane can be represented as: ---



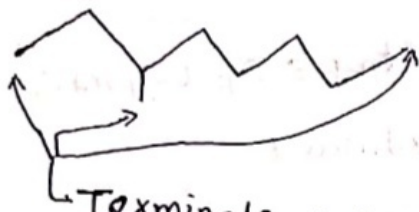
complete structure

By-Dr.Rinky

Dept. of Chemistry



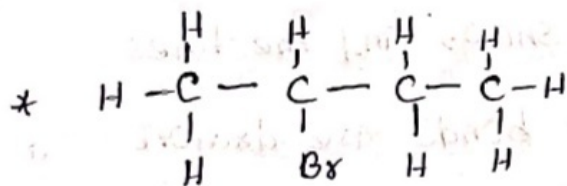
Condensed structure



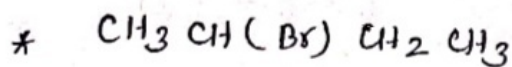
Terminals represent methyl group.

Bond-line structure

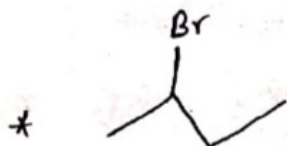
② 2-bromobutane



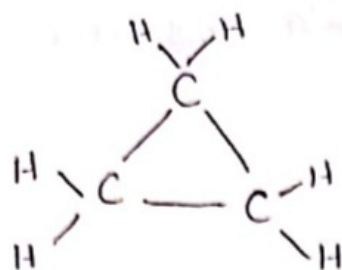
\* Complete structure



\* Condensed structure



Bond-line structure

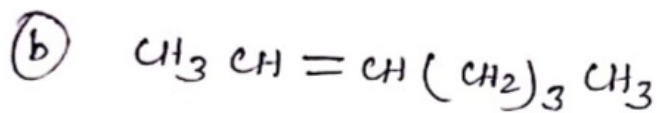
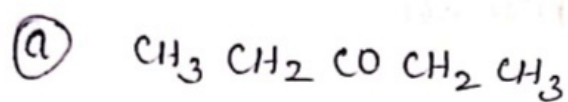


Cyclopropane

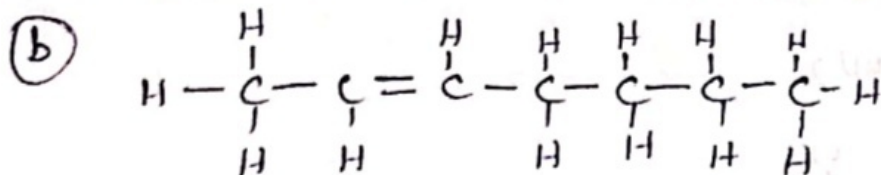
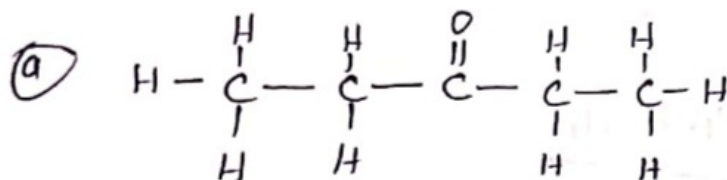


Bond-line structure

Q 12.4 Expand each of the following condensed formulas into their complete structural formulas.

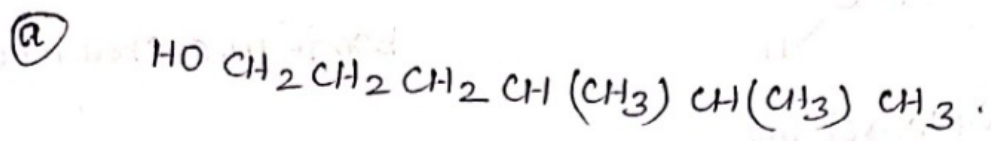


Solution

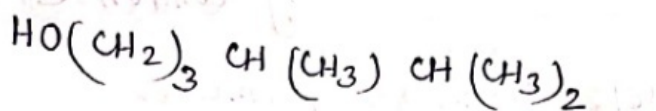


Q. 12.5

write a condensed formula and also their bond-line formula.



Solution



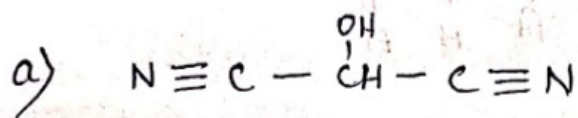
condensed formula.



Bond-line formula.

Try yourself.

Q. write condensed formula and also their bond line formula.



To be continued in next lecture..