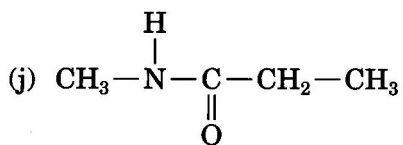
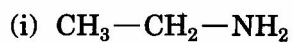
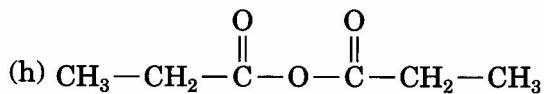
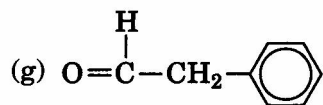
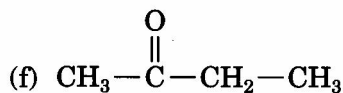
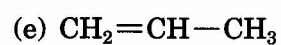
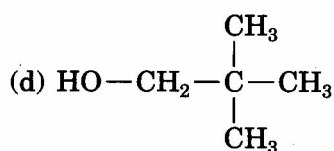
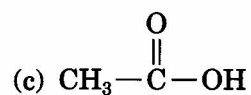
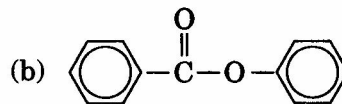
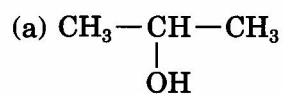


REVIEW QUESTIONS

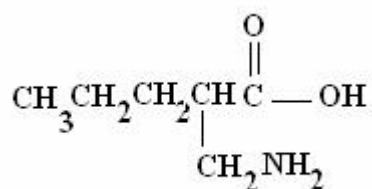
Chapter 19

1. Circle and identify each functional group in the structures below:

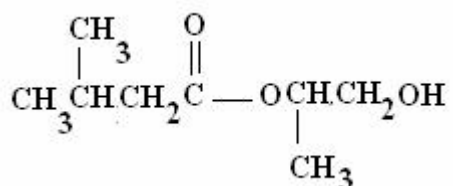


2. Identify the functional groups and draw stick diagrams for each structural formula shown below:

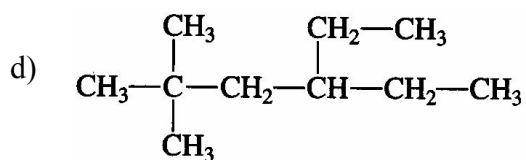
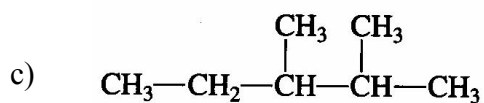
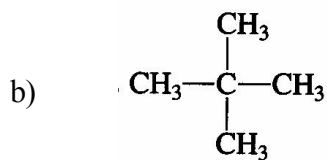
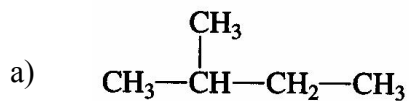
a)



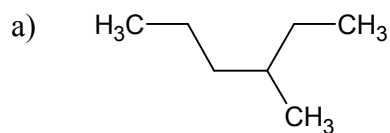
b)



3. Name each of the following alkanes using the IUPAC system:



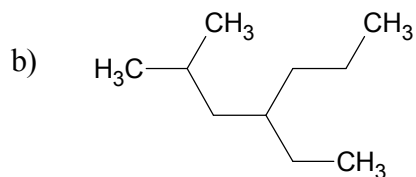
4. For each stick diagram shown below, write condensed structural and molecular formulas and name using the IUPAC system:



Molecular formula: _____

Structural formula: _____

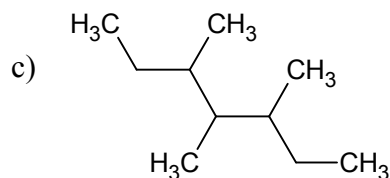
Name: _____



Molecular formula: _____

Structural formula: _____

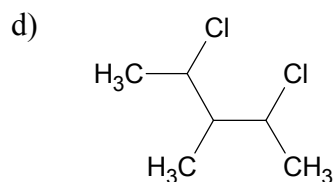
Name: _____



Molecular formula: _____

Structural formula: _____

Name: _____



Molecular formula: _____

Structural formula: _____

Name: _____

5. Write the condensed structural formulas for each of the following compounds:

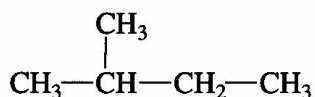
a) 3-ethylhexane

b) 2,3-dimethylpentane

c) 1,3-dichloro-3-methylpentane

6. For each hydrocarbon shown below, identify carbons and hydrogens as primary (1°), secondary (2°) or tertiary (3°).

a)



1°C : _____

2°C : _____

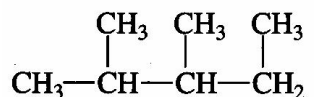
3°C : _____

1°H : _____

2°H : _____

3°H : _____

b)



1°C : _____

2°C : _____

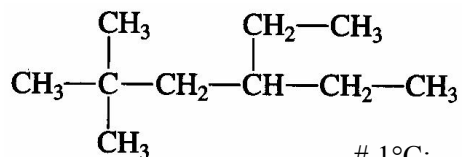
3°C : _____

1°H : _____

2°H : _____

3°H : _____

c)



1°C : _____

2°C : _____

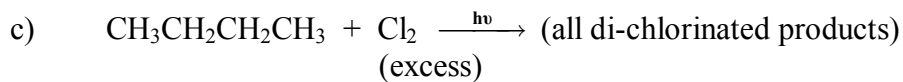
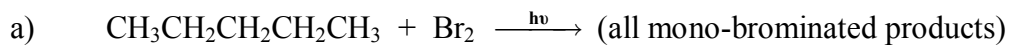
3°C : _____

1°H : _____

2°H : _____

3°H : _____

7. Complete each of the reactions shown below. If reactions produce more than one isomer, draw structure and name each isomer.



8. Indicate whether each of the following pairs of structural formulas represent isomers or the same molecule:

