The City School

**North Nazimabad Boys Campus**

**Alkane and Alkene**

**Class11**

 **Teacher: Ms.Zubaida**

1:Petroleum is separated into fractions, like this:



**a i** What is this process called?

**ii** It uses the fact that different compounds

have different ……… ………. What is missing?

**b i** Is naphtha just one compound, or a group of

compounds? Explain.

**ii** Using the terms *evaporation* and *condensation*,

explain how naphtha is produced.

**c** Give one use for each fraction obtained.

**d** A hydrocarbon has a boiling point of 200 ° C.

**i** Are its carbon chains shorter, or longer, than

those found in naphtha?

**ii** Is it more viscous, or less viscous, than

the compounds found in naphtha?

2:Hex-1-ene is an unsaturated hydrocarbon. It melts

at 2140° C and boils at 63° C. Its empirical formula

is CH2. Its relative molecular mass is 84.

**a i** To which family does hex-1-ene belong?

**ii** What is its molecular formula?

**b i** Hex-1-ene reacts with bromine water. Write

an equation to show this reaction.

**ii** What is this type of reaction called?

**iii** What would you *see* during the reaction?