

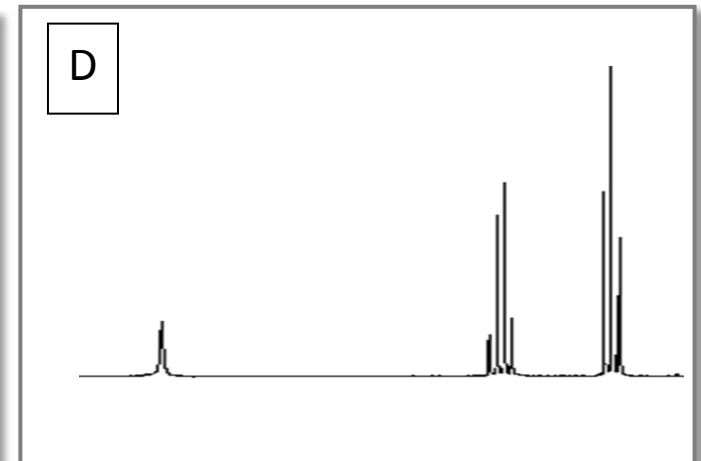
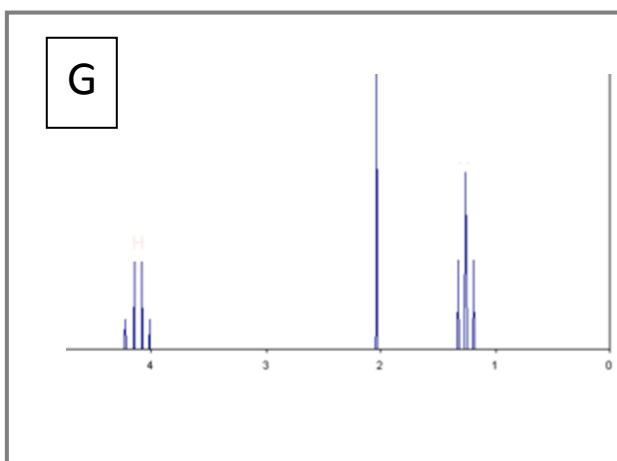
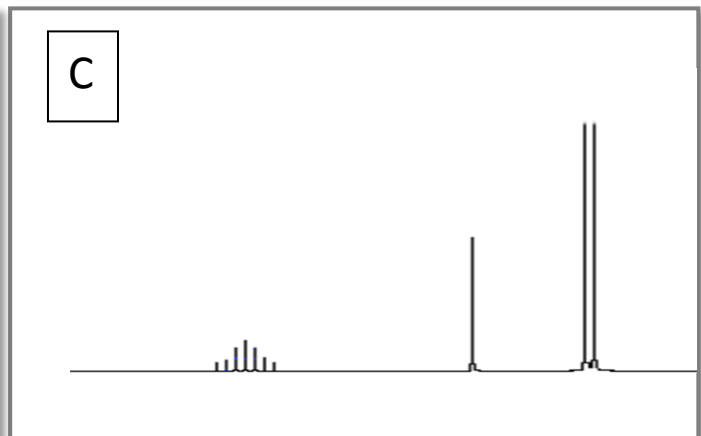
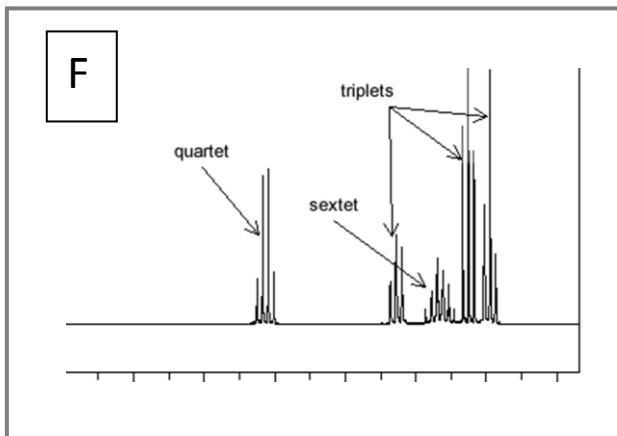
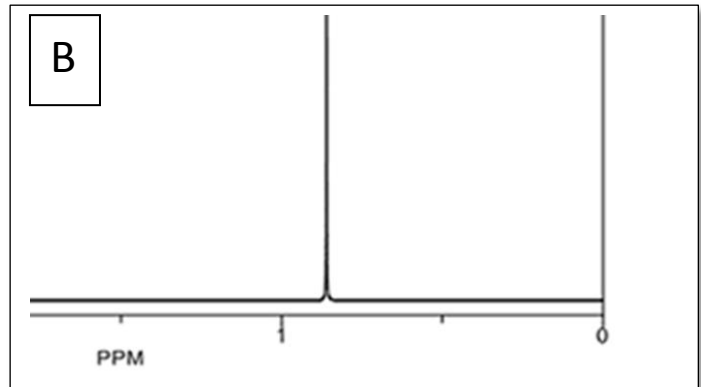
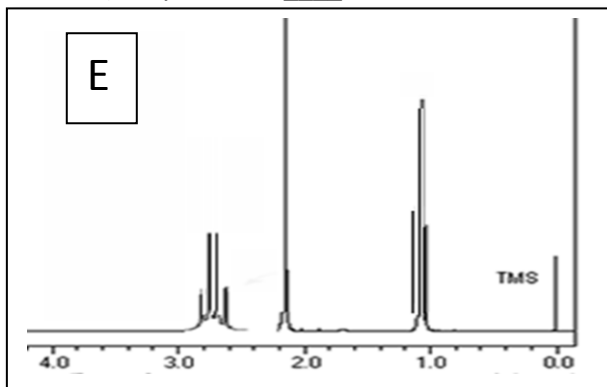
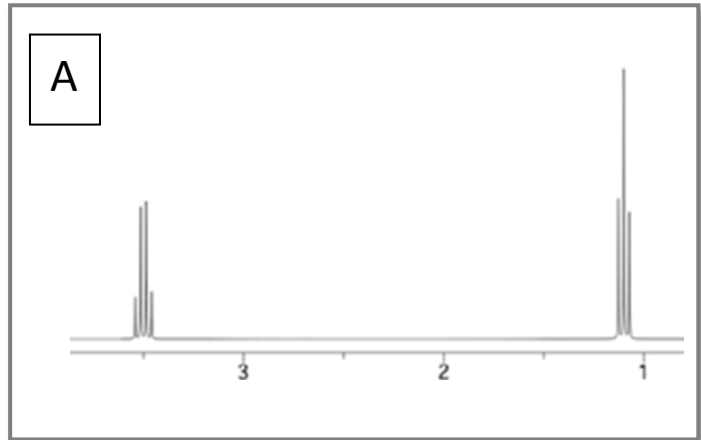
Friday Worksheet

Macromolecules worksheet 1

Name:

Match the compound to the ^1H NMR spectrum .

- 1) Ethyl butanoate _____
- 2) $\text{CH}_3\text{CH}_2\text{COOH}$ _____
- 3) Propan-2-ol _____
- 4) Ethane _____
- 5) $\text{CH}_3\text{CH}_2\text{COCH}_3$ _____
- 6) $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$ _____
- 7) Ethyl acetate _____



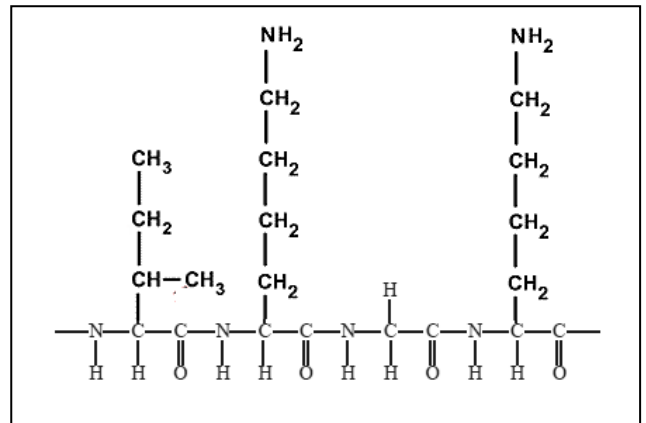
2) Molecule G has the molecular formula $C_4H_8O_2$.

i. Draw its structural formula.

iii. What raw materials are needed to form G?

3) The structure on the right represents a section of a polypeptide.

a) Name the amino acids that formed this section of the polypeptide.



b) Give the systematic name of each amino acid.

4) The diagram below represents part of the DNA double helix.

a) Identify the sugar molecule.

b) What atom or group of atoms is represented by A and B

c) The bond labelled "X" comes about due to the interaction of which two functional groups

d) What is the base sequence of the complementary strand of the DNA molecule?

