**Additional questions on Properties of carbon compounds**

1. The BP oil spill in the Gulf of Mexico off the coast of America resulted in millions of litres of oil floating out into the sea. Amongst this were many different hydrocarbons, one of them being octane.

(a) Define a hydrocarbon.

(b) Draw an octane molecule.

(c) Explain why the majority of the oil, including the octane floated on top of the water.

(d) One of the methods of removing the oil and octane included controlled burning of those products. Discuss why this is an effective way of removing the oil/octane and include the products which would have been produced as a result.

2. A teacher wants to heat a liquid hydrocarbon to 60°C. He pours 5 ml of the hydrocarbon into a test tube, then places the test tube and hydrocarbon in a beaker of hot water onto a hot plate.

Suggest why the teacher uses hot water and a hot plate to heat the hydrocarbon and not a Bunsen burner.

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