Homework 1: Energy generation

# 1. Which of the following statements about fossil fuels is false? [1]

⬨ Fossil fuels are burned to create heat, which fires steam-driven turbines

⬨ Fossil fuels include gas, oil and coal

⬨ Fossil fuels produce no CO2 when burned

⬨ Fossil fuels cannot be replaced as fast as they are being used

# 2. Name three different renewable energy sources. [3]

# 3. The National Grid is the network of power cables that connect power sources to supply electricity to businesses and homes in the UK.

# Discuss how the National Grid ensures a consistent supply of power on a cold and still winter’s evening and justify why demand might be high at this point? [5]

# 4. Explain how fossil fuels are used to produce electricity. [3]

# 5. Explain how shale gas is produced by fracking (hydraulic fracturing). [3]

Total 15 marks