

3 The photograph shows a fuel delivery at a petrol station.



Source: Jeeferon Siegel, New York Daily News

(a) Explain how a fuel tanker can become electrically charged while it is moving.

(2)

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(b) Pumping fuel from an electrically-charged tanker can be dangerous.

(i) Describe a possible danger of pumping fuel from an electrically-charged tanker.

(1)

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(ii) The driver connects an earth wire to the fuel tanker before pumping fuel.

Explain how connecting the earth wire reduces the possible dangers.

(2)

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(Total for Question 3 = 5 marks)

