

Answer ALL questions.

- 1** Electrical energy can be transmitted using a high voltage of 132 kV.



- (a) A voltage of 132 kV is the same as

(1)

- ☐ **A** 132 V
- ☐ **B** 1320 V
- ☐ **C** 132 000 V
- ☐ **D** 132 000 000 V

- (b) Using a high voltage increases the

(1)

- ☐ **A** current in the wires
- ☐ **B** efficiency of transmission
- ☐ **C** energy lost as heat
- ☐ **D** resistance of the wires

- (c) The high voltage can be reduced using a

(1)

- ☐ **A** generator
- ☐ **B** magnet
- ☐ **C** transformer
- ☐ **D** transmitter

(Total for Question 1 = 3 marks)

