

**Answer ALL questions.**

- 1 (a) The boxes give some situations and some energy stores.

Draw one straight line from each situation to the energy store that decreases for that situation.

The first one has been done for you.

(4)

**Situation****Energy store**

a beaker of water cooling down

elastic

a car moving horizontally and slowing down

kinetic

a ball falling towards the ground

thermal

a nucleus splitting due to fission

nuclear

a stretched rubber band decreasing in length

gravitational

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(b) Energy is transferred when a filament lamp is connected to a battery.

(i) Which method of energy transfer takes place between the battery and the lamp? (1)

- ☐ **A** electrical
- ☐ **B** heating
- ☐ **C** mechanical
- ☐ **D** radiation

(ii) Which method of energy transfer takes place between the lamp and the surroundings? (1)

- ☐ **A** electrical
- ☐ **B** light radiation
- ☐ **C** mechanical
- ☐ **D** sound radiation

(Total for Question 1 = 6 marks)

