1 An athlete runs a one hundred metre race. During the short race his muscles release energy from glucose in the absence of oxygen. Lactic acid is a product of this process.

1 (a) What is the name of the process that releases energy from glucose in the absence of oxygen?

……………………………………………………………………………………………………………………………………………………………

(1 mark)

1 (a) (i) The amount of energy released by this process is small in comparison to the amount of energy available in molecules of glucose.

Suggest one advantage of the process, even though it releases a small amount of energy.

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(1 mark)

1 (a) (iii) After the race the athlete breathes heavily for a while.

Explain why.

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(3 marks)

(Total 8 marks)