

AQA, OCR, Edexcel

A Level

A Level Biology

Respiration 1 Answers

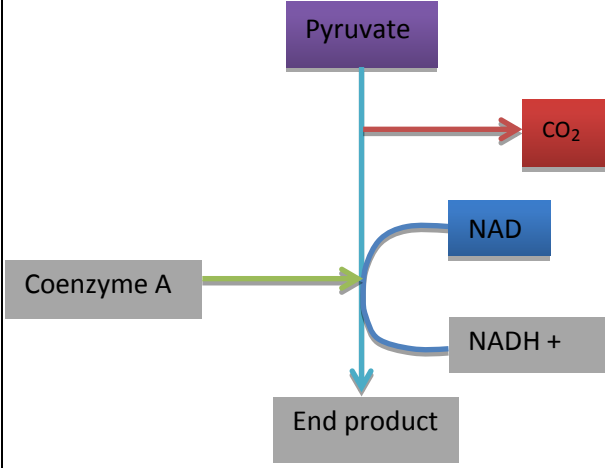
Name:

M M E

Mathsmadeeasy.co.uk

Total Marks: /17

Answer	Marks
<p>1.</p> <p>a) i) $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$</p> <p>b) i) Matrix and Cristae</p> <p>ii) Cytoplasm</p> <p>iii) Anabolic – combine smaller molecules into larger ones Catabolic – breaks large molecules into small ones</p> <p>2.</p> <p>a)</p> <p>i) Addition of a phosphate molecule</p> <p>ii)</p> <div style="text-align: center;"> <pre> graph TD Glucose[Glucose] --> Triose[2 x triose phosphate] Triose --> Pyruvate[2 x pyruvate] </pre> </div> <p>b)</p> <p>i) Loss of hydrogen from a molecule</p> <p>ii) Removes a hydrogen atom and transports it away</p> <p>iii) 4 Net 2 ATP overall</p>	<p>2 marks</p> <p>2 marks</p> <p>1 mark</p> <p>2 marks</p> <p>1 mark</p> <p>1 mark</p> <p>1 mark</p> <p>2 marks</p>

<p>c)</p> <p>i)</p>  <p>ii) Acetyl CoA</p> <p>iii) Oxidation via NAD being reduced</p> <p>iv) Twice</p>	<p>1 mark</p> <p>1 mark</p> <p>1 mark</p> <p>1 mark</p>
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