

A-LEVEL BIOLOGY

Practice Paper 2

MARK SCHEME

Maximum marks: 91

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- | | | | |
|------------------------|-------|--|-------|
| 1 | (a) | <p>Prevents <u>oxygen</u> being taken up / entering / being absorbed;
 <i>Accept: any idea of no contact with oxygen.</i>
 <i>Neutral: for anaerobic respiration / anaerobic conditions.</i>
 <i>Neutral: prevents entry of air.</i>
 <i>Reject: prevents entry of oxygen and another named gas.</i></p> | 1 |
| (b) | (i) | <p>0.0155 / 0.016 = 2 marks;
 0.0775 / 0.077 / 0.078 / 0.08 = 1 mark
 / 0.62 = 1 mark</p> | 2 |
| | (ii) | <p>Glucose decreases / in a "step" / falls / increases in ethanol / yeast /
 cells die / fail to pick up;
 <i>Accept: glucose is used.</i></p> | 1 |
| | (iii) | <p>1. (Stays the) same / level / (relatively) constant;
 2. Same volume / amount of oxygen uptake and carbon dioxide release;
 <i>Note: if m.p. 1 is awarded m.p. 2 can be obtained without referring to 'same volume / amount'.</i></p> | 2 |
| | (c) | <p>1. Oxygen is final / terminal (electron) acceptor / oxygen combines
 with electrons and protons;
 2. Oxidative phosphorylation / electron transport chain provides (most) ATP
 / only glycolysis occurs without oxygen / no Krebs / no link reaction;</p> | 2 |
| [Total 8 marks] | | | |
| 2 | (a) | <p>1. (In myelinated) action potential / depolarisation only at node(s);
 2. (In myelinated, nerve impulse) jumps from node to node / saltatory;
 3. (In myelinated) action potential / impulse does not travel along whole length;
 <i>The question is about speed of transmission, not repolarisation or related matters</i>
 <i>Accept converse for non-myelinated</i></p> | 3 |
| | (b) | <p>1. Probability of obtaining this difference by chance;
 <i>Reject 'results' once only/ This statement often split round 2.</i>
 2. Is less than 5% / less than 0.05 / less than one in twenty;
 <i>Accept is 4.7% / 0.047 but reject less than 4.7% / 0.047</i>
 <i>Accept correct greater than 95% / greater than 0.95 arguments</i>
 3. Difference is significant;
 <i>1 max for 'the probability that the two are due to chance' & less than 5%'</i></p> | 2 max |

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