

B1H Edexcel PiXL Mark Scheme November 2014

| Question | Answer | Additional Guidance |
|---|---|--|
| 1 (a) | B alleles (1) | Score 0 marks if more than one box is crossed |
| 1 (b) | Variation caused by genes (1) (inherited) from parents (1) | |
| 1 (c) | 23 (1) | |
| 1 (d) (i) | <div style="display: flex; justify-content: space-around;"><div style="background-color: black; width: 100px; height: 1.2em;"></div><div>T</div><div>t</div></div> | 1 mark for parents |
| | <div style="display: flex; justify-content: space-around;"><div>t</div><div>Tt</div><div>tt</div></div> | 1 mark for offspring |
| | <div style="display: flex; justify-content: space-around;"><div>t</div><div>Tt</div><div>tt</div></div> | Parents can be either way round |
| 1 (d) (ii) | 50% or $\frac{1}{2}$ or 1 in 2 or 2 in 4 or 2:2 or 1:1 (1) | If more than one probability is given and any are incorrect, the mark is negated |
| 1 (e) | Breathing difficulties (1) and weight loss (1) | Accept correct alternative and higher level responses |
| (Total for Question 1 = 9 marks) | | |
| 2 (a) (i) | A chemical (1) that changes the way the body works (1) | |
| 2 (a) (ii) | C addicted (1) | Score 0 marks if more than one box is crossed |
| 2 (b) | Alcohol is a depressant (1) so slows down the activity of neurones in the brain (1) | |
| 2 (c) | Short-term effects, any 2 from: <ul style="list-style-type: none">• Reduces negative feelings/makes you feel happier• Lower inhibitions/take greater risks• Blurred vision• Affect co-ordination/difficult to do simple mental or physical tasks• Vomiting• Unconsciousness | Maximum of 2 marks for short-term effects |
| | Long-term effects, any 2 from: <ul style="list-style-type: none">• Liver cirrhosis• Affecting learning/memory in the brain• Blood clot in the brain• Addictive | Maximum of 2 marks for long-term effects |
| | (2) | |
| (Total for Question 2 = 9 marks) | | |
| 3 (a) | A tears (1) | Score 0 marks if more than one box is crossed |
| 3 (b) | Chemical substances (1) that kill microorganisms outside the body (1) | |
| 3 (c) | Antibiotics can only kill/stop the growth of bacteria (1) | |

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