

Psychology

Advanced Subsidiary GCE

Unit **G541**: Psychological Investigations

Mark Scheme for January 2012

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All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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Annotations

Annotation	Meaning
	Good response/positive (to be used to indicate number of marks awarded for part questions e.g. +++/++= 3+2 marks)
	Negative
	Unclear
	Attempts evaluation
	Benefit of doubt
	Context
	Omission
	Incorrect response
	Evaluation
	Expandable horizontal wavy line
	Irrelevant
	Not answered question
	Expandable vertical wavy line
	Correct response

Question	Answer	Marks	Guidance												
1	<p>Strengths could include: the ability to use the same cartoon to control for possible effects of some cartoons being funnier than others; no carry-over effects (e.g. insight or fatigue) from having already participated in one condition prior to the other.</p> <p>Weaknesses could include: individual differences in how happy or not people are, regardless of whether 'smiling' or not; need more participants as they can only participate in one condition.</p> <p>3 marks for strength, 3 marks for weakness</p> <table border="1" data-bbox="320 587 1263 1034"> <tr> <td data-bbox="320 587 439 655">0 marks</td> <td colspan="2" data-bbox="439 587 1263 655">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="320 655 439 759">1 mark</td> <td colspan="2" data-bbox="439 655 1263 759">Appropriate strength/weakness outlined briefly but lacks clarity/detail (e.g. simply stating 'no order effects') and not in context</td> </tr> <tr> <td data-bbox="320 759 439 963">2 marks</td> <td data-bbox="439 759 824 963">Appropriate strength/weakness outlined clearly outlined, but not in the context of the research outlined in the source material</td> <td data-bbox="824 759 1263 963">OR outline of strength/weakness lacks clarity/detail but attempt to discuss in context</td> </tr> <tr> <td data-bbox="320 963 439 1034">3 marks</td> <td colspan="2" data-bbox="439 963 1263 1034">Appropriate strength/weakness outlined clearly outlined and in the context of the research outlined in the source material</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Appropriate strength/weakness outlined briefly but lacks clarity/detail (e.g. simply stating 'no order effects') and not in context		2 marks	Appropriate strength/weakness outlined clearly outlined, but not in the context of the research outlined in the source material	OR outline of strength/weakness lacks clarity/detail but attempt to discuss in context	3 marks	Appropriate strength/weakness outlined clearly outlined and in the context of the research outlined in the source material		6	<p>-Context here refers to for example: smiling, happiness, emotion, funny, pencil, teeth, lips or cartoon.</p>
0 marks	The candidate has not provided any creditworthy information														
1 mark	Appropriate strength/weakness outlined briefly but lacks clarity/detail (e.g. simply stating 'no order effects') and not in context														
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2 (a)	<p>The independent variable is 'smiling' operationalised as holding a pencil in the teeth or lips.</p> <table border="1" data-bbox="331 319 1274 592"> <tr> <td data-bbox="331 319 450 384">0 marks</td> <td colspan="2" data-bbox="450 319 1274 384">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="331 384 450 523">1 mark</td> <td data-bbox="450 384 808 523">Independent variable identified but no explanation of how it has been operationalised</td> <td data-bbox="808 384 1274 523">OR description of how the independent variable has been operationalised without saying what it is</td> </tr> <tr> <td data-bbox="331 523 450 592">2 marks</td> <td colspan="2" data-bbox="450 523 1274 592">Independent variable correctly identified and details of how it was operationalised</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Independent variable identified but no explanation of how it has been operationalised	OR description of how the independent variable has been operationalised without saying what it is	2 marks	Independent variable correctly identified and details of how it was operationalised		2	-If unclear because reference is made to both IV and DV cap at 1 mark.
0 marks	The candidate has not provided any creditworthy information											
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2 marks	Independent variable correctly identified and details of how it was operationalised											
(b)	<p>The dependent variable is 'happiness' operationalised as a score on a scale (between 1 and 10).</p> <table border="1" data-bbox="331 766 1274 1038"> <tr> <td data-bbox="331 766 450 831">0 marks</td> <td colspan="2" data-bbox="450 766 1274 831">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="331 831 450 970">1 mark</td> <td data-bbox="450 831 808 970">Dependent variable identified but no explanation of how it has been operationalised</td> <td data-bbox="808 831 1274 970">OR description of how the dependent variable has been operationalised without saying what it is</td> </tr> <tr> <td data-bbox="331 970 450 1038">2 marks</td> <td colspan="2" data-bbox="450 970 1274 1038">Dependent variable correctly identified and details of how it was operationalised</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Dependent variable identified but no explanation of how it has been operationalised	OR description of how the dependent variable has been operationalised without saying what it is	2 marks	Dependent variable correctly identified and details of how it was operationalised		2	<p>-If unclear because reference is made to both IV and DV cap at 1 mark.</p> <p>-Accept 'mood' for DV.</p> <p>-Accept 'rating scale' for how the DV is operationalised.</p>
0 marks	The candidate has not provided any creditworthy information											
1 mark	Dependent variable identified but no explanation of how it has been operationalised	OR description of how the dependent variable has been operationalised without saying what it is										
2 marks	Dependent variable correctly identified and details of how it was operationalised											

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3	<p>For both reliability and validity positive and/or negative evaluation issues are acceptable.</p> <p>Comments about reliability could include use of the same scale (1 to 10) with clearly defined ends so should be easy to use in the same way by each participant; possible differences in the way each number on the scale is interpreted by participants; use of the same cartoon clip.</p> <p>Comments about validity could include: potential dishonesty of participants when selecting a number; demand characteristics (picking a number to please/upset the researcher); the numerical scale allows the extent of participants happiness to be assessed; difficult to express happiness just in a quantitative way.</p> <table border="1" data-bbox="320 655 1263 1374"> <tr> <td data-bbox="320 655 439 722">0 marks</td> <td colspan="3" data-bbox="439 655 1263 722">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="320 722 439 790">1-2 marks</td> <td data-bbox="439 722 846 790">General attempt to evaluate reliability only</td> <td colspan="2" data-bbox="846 722 1263 790">OR General attempt to evaluate validity only</td> </tr> <tr> <td data-bbox="320 790 439 857">3-4 marks</td> <td data-bbox="439 790 846 857">General attempt to evaluate both reliability and validity</td> <td colspan="2" data-bbox="846 790 1263 857">OR attempt to evaluate reliability or validity in context</td> </tr> <tr> <td data-bbox="320 857 439 1099">5-6 marks</td> <td data-bbox="439 857 703 1099">Clear evaluation of reliability, or validity in context</td> <td data-bbox="703 857 967 1099">OR clear evaluation of both reliability and validity, but not in context (if only one clear = 5 marks)</td> <td data-bbox="967 857 1263 1099">OR attempt to evaluate both reliability and validity in context (if only one in context = 5 marks)</td> </tr> <tr> <td data-bbox="320 1099 439 1268">7-8 marks</td> <td data-bbox="439 1099 846 1268">Clear evaluation of reliability in context and attempt at evaluation of validity (just 7 marks if attempt not in context)</td> <td colspan="2" data-bbox="846 1099 1263 1268">OR Clear evaluation of validity in context and attempt at evaluation of reliability (just 7 marks if attempt not in context)</td> </tr> <tr> <td data-bbox="320 1268 439 1374">9-10 marks</td> <td colspan="3" data-bbox="439 1268 1263 1374">Clear evaluation of both reliability and validity in context. Note: For 10 marks all evaluation points discussed must be correctly labelled with no confusion between the two.</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information			1-2 marks	General attempt to evaluate reliability only	OR General attempt to evaluate validity only		3-4 marks	General attempt to evaluate both reliability and validity	OR attempt to evaluate reliability or validity in context		5-6 marks	Clear evaluation of reliability, or validity in context	OR clear evaluation of both reliability and validity, but not in context (if only one clear = 5 marks)	OR attempt to evaluate both reliability and validity in context (if only one in context = 5 marks)	7-8 marks	Clear evaluation of reliability in context and attempt at evaluation of validity (just 7 marks if attempt not in context)	OR Clear evaluation of validity in context and attempt at evaluation of reliability (just 7 marks if attempt not in context)		9-10 marks	Clear evaluation of both reliability and validity in context. Note: For 10 marks all evaluation points discussed must be correctly labelled with no confusion between the two.			10	<p>-Context here refers to happiness and emotion.</p> <p>-NB reference to anything other than the actual measure of the DV is not creditworthy (such as Ps prior emotion state)</p>
0 marks	The candidate has not provided any creditworthy information																										
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4	<p>Findings could include: most number of times thinking about a white bear reported was 21; least number of times was 2; range of scores was 2-21 showing a lot of variation in how many times thoughts of a white bear were reported; most people reported thinking of a white bear 10 or more times during the five minute period, .</p> <p>2 marks for each finding</p> <table border="1" data-bbox="318 510 1261 750"> <tr> <td data-bbox="318 510 436 574">0 marks</td> <td data-bbox="436 510 1261 574">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="318 574 436 678">1 mark</td> <td data-bbox="436 574 1261 678">The candidate has stated a finding, but this lacks clarity, or is not in the context of the research outlined in the source material.</td> </tr> <tr> <td data-bbox="318 678 436 750">2 marks</td> <td data-bbox="436 678 1261 750">The candidate has stated a clear finding and this is in the context of the research outlined in the source material.</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information	1 mark	The candidate has stated a finding, but this lacks clarity, or is not in the context of the research outlined in the source material.	2 marks	The candidate has stated a clear finding and this is in the context of the research outlined in the source material.	4	<p>-Context here refers to a 'white bear' (or just 'bear')</p> <p>-The following descriptive statistics are creditworthy. Mean = 11.6, median = 11.5 (accept 11 or 12), range = 19, total = 116</p> <p>-Accept the scores of 2 and 21 as anomalous or extreme</p>
0 marks	The candidate has not provided any creditworthy information								
1 mark	The candidate has stated a finding, but this lacks clarity, or is not in the context of the research outlined in the source material.								
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Question	Answer		Marks	Guidance
5	Appropriate descriptive statistics include calculating the mean, median or range.		4	Context here refers to a 'white bear' (or just 'bear') -Mode and bar chart not appropriate - Credit average, dispersion and central tendency.
0 marks	The candidate has not provided any creditworthy information			
1 mark	Appropriate descriptive statistic named	OR described but not named (or described but named incorrectly)		
2 marks	Attempt to describe how an appropriate descriptive statistic could be used but not in context of the information outlined in the source material	OR described in context (or described in context but named incorrectly)		
3 marks	Attempt to describe how an appropriate descriptive statistic could be used in context of the information outlined in the source material	OR Appropriate descriptive statistic fully explained but not in context		
4 marks	Appropriate descriptive statistic fully explained in context of the research outlined in the source material			

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6	<p>Strengths could include: allows researchers access to what kind of things related to a white bear participants were thinking of; informative about what else participants were thinking of when not a white bear</p> <p>Weaknesses could include: difficult to classify and interpret findings; may be difficult to understand what some participants mean at times; not a natural process – may be different to how participants think when not expressing their thoughts aloud.</p> <p>3 marks for strength, 3 marks for weakness</p> <table border="1" data-bbox="320 587 1274 965"> <tr> <td data-bbox="320 587 439 655">0 marks</td> <td colspan="2" data-bbox="439 587 1274 655">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="320 655 439 724">1 mark</td> <td colspan="2" data-bbox="439 655 1274 724">Attempt to outline strength/weakness but in general, not in the context of the research outlined in the source material.</td> </tr> <tr> <td data-bbox="320 724 439 895">2 marks</td> <td data-bbox="439 724 824 895">Strength/weakness clearly outlined but not in the context of the research outlined in the source material.</td> <td data-bbox="824 724 1274 895">OR Attempt to outline strength/weakness in the context of the research outlined in the source material.</td> </tr> <tr> <td data-bbox="320 895 439 965">3 marks</td> <td colspan="2" data-bbox="439 895 1274 965">Strength/weakness clearly outlined in the context of the research outlined in the source material.</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Attempt to outline strength/weakness but in general, not in the context of the research outlined in the source material.		2 marks	Strength/weakness clearly outlined but not in the context of the research outlined in the source material.	OR Attempt to outline strength/weakness in the context of the research outlined in the source material.	3 marks	Strength/weakness clearly outlined in the context of the research outlined in the source material.		6	<p>-Context here refers to a 'white bear' (or just 'bear').</p> <p>-Do not credit strengths and weaknesses of the method (e.g. self-reports – dishonesty)</p>
0 marks	The candidate has not provided any creditworthy information														
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7 (a)	<p>An open question is one that does not restrict how respondents reply. For example, describe what it was like when trying not to think of a white bear</p> <table border="1" data-bbox="331 300 1285 539"> <tr> <td data-bbox="331 300 450 363">0 marks</td> <td colspan="2" data-bbox="450 300 1285 363">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="331 363 450 467">1 mark</td> <td data-bbox="450 363 869 467">Attempt to suggest an appropriate open question, but lacks some clarity</td> <td data-bbox="869 363 1285 467">OR open question clearly outlined but not in context</td> </tr> <tr> <td data-bbox="331 467 450 539">2 marks</td> <td colspan="2" data-bbox="450 467 1285 539">Appropriate open question clearly outlined in context</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Attempt to suggest an appropriate open question, but lacks some clarity	OR open question clearly outlined but not in context	2 marks	Appropriate open question clearly outlined in context		2	<p>-Context here refers to a 'white bear' (or just 'bear')</p> <p>- Assume response is an open question if there are no predetermined options. EG Did you think of any bears? = 2 marks.</p>
0 marks	The candidate has not provided any creditworthy information											
1 mark	Attempt to suggest an appropriate open question, but lacks some clarity	OR open question clearly outlined but not in context										
2 marks	Appropriate open question clearly outlined in context											
(b)	<p>A closed question is one that presents respondents a number of pre-determined response categories to select from when answering the question. For example, How difficult was it not to think of a white bear? - very difficult - somewhat difficult - not very difficult.</p> <table border="1" data-bbox="331 746 1285 986"> <tr> <td data-bbox="331 746 450 810">0 marks</td> <td colspan="2" data-bbox="450 746 1285 810">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="331 810 450 914">1 mark</td> <td data-bbox="450 810 869 914">Attempt to suggest an appropriate closed question, but lacks some clarity</td> <td data-bbox="869 810 1285 914">OR closed question clearly outlined but not in context</td> </tr> <tr> <td data-bbox="331 914 450 986">2 marks</td> <td colspan="2" data-bbox="450 914 1285 986">Appropriate closed question clearly outlined in context</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Attempt to suggest an appropriate closed question, but lacks some clarity	OR closed question clearly outlined but not in context	2 marks	Appropriate closed question clearly outlined in context		2	<p>-Context here refers to a 'white bear' (or just bear')</p> <p>-Must have response options to gain any credit</p>
0 marks	The candidate has not provided any creditworthy information											
1 mark	Attempt to suggest an appropriate closed question, but lacks some clarity	OR closed question clearly outlined but not in context										
2 marks	Appropriate closed question clearly outlined in context											
(c)	<p>A rating scale question involves the use of a scale for respondents to indicate their answer. For example Indicate on a scale of 1 (not very difficult) to 10 (very difficult) how difficult you found it not to think of a white bear</p> <table border="1" data-bbox="331 1129 1285 1401"> <tr> <td data-bbox="331 1129 450 1193">0 marks</td> <td colspan="2" data-bbox="450 1129 1285 1193">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="331 1193 450 1329">1 mark</td> <td data-bbox="450 1193 869 1329">Attempt to suggest an appropriate question involving the use of a rating scale, but lacks some clarity</td> <td data-bbox="869 1193 1285 1329">OR rating scale question clearly outlined but not in context</td> </tr> <tr> <td data-bbox="331 1329 450 1401">2 marks</td> <td colspan="2" data-bbox="450 1329 1285 1401">Appropriate question involving the use of a rating scale, clearly outlined in context</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Attempt to suggest an appropriate question involving the use of a rating scale, but lacks some clarity	OR rating scale question clearly outlined but not in context	2 marks	Appropriate question involving the use of a rating scale, clearly outlined in context		2	<p>-Context here refers to a 'white bear' (or just 'bear')</p> <p>-A verbal rating scale is Okay, but must include at least three options.</p>
0 marks	The candidate has not provided any creditworthy information											
1 mark	Attempt to suggest an appropriate question involving the use of a rating scale, but lacks some clarity	OR rating scale question clearly outlined but not in context										
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Question	Answer	Marks	Guidance										
8	<p>Note: null hypotheses are not tailed. Some good examples here would be something like ... There is/will be no correlation between how ugly people rate snakes and how frightened they are of them. Any correlation found is due to chance.</p> <table border="1" data-bbox="320 384 1274 799"> <tr> <td data-bbox="320 384 439 453">0 marks</td> <td data-bbox="439 384 1274 453">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="320 453 439 555">1 mark</td> <td data-bbox="439 453 1274 555">The candidate has written an appropriate null hypothesis but has simply stated 'there will not be/is no correlation'. There is no indication of either of the measured variables</td> </tr> <tr> <td data-bbox="320 555 439 624">2 marks</td> <td data-bbox="439 555 1274 624">The candidate has written an appropriate null hypothesis but has only referred to one variable</td> </tr> <tr> <td data-bbox="320 624 439 726">3 marks</td> <td data-bbox="439 624 1274 726">The candidate has written an null hypothesis referring to both variables, but there is a lack of clarity about one of the measured variables or both</td> </tr> <tr> <td data-bbox="320 726 439 799">4 marks</td> <td data-bbox="439 726 1274 799">The candidate has written a clearly stated appropriate null hypothesis referring to both of the measured variables</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information	1 mark	The candidate has written an appropriate null hypothesis but has simply stated 'there will not be/is no correlation'. There is no indication of either of the measured variables	2 marks	The candidate has written an appropriate null hypothesis but has only referred to one variable	3 marks	The candidate has written an null hypothesis referring to both variables, but there is a lack of clarity about one of the measured variables or both	4 marks	The candidate has written a clearly stated appropriate null hypothesis referring to both of the measured variables	4	<p>- Allow 'relationship' or 'correlation'.</p> <p>-Do not credit any reference to difference/effect/IV/DV regardless of what else is written.</p> <p>-The variables do not have to be fully operationalised for maximum marks.</p> <p>-Do not credit reference to an 'association' or a 'link'.</p> <p>-Do not credit directional statements.</p>
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9	<p>The use of rating scales are acceptable here but also measurements based on any other alternatives, such as an observation schedule that classifies the number of anxiety responses towards a snake when exposed to one or discussing one. However, the measure must yield a quantifiable result for use in a correlation analysis.</p> <table border="1" data-bbox="320 419 1274 866"> <tr> <td data-bbox="320 419 439 488">0 marks</td> <td colspan="2" data-bbox="439 419 1274 488">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="320 488 439 557">1 mark</td> <td colspan="2" data-bbox="439 488 1274 557">Attempt to outline how fear could be measured, but lacks detail and/or clarity and not replicable but not in context.</td> </tr> <tr> <td data-bbox="320 557 439 695">2 marks</td> <td data-bbox="439 557 857 695">Minor omissions that would prevent replication</td> <td data-bbox="857 557 1274 695">OR Attempt to outline how fear could be measured, but lacks detail and/or clarity and not replicable but in context.</td> </tr> <tr> <td data-bbox="320 695 439 799">3 marks</td> <td data-bbox="439 695 857 799">Replicable outline of how fear could be measured but not in context</td> <td data-bbox="857 695 1274 799">OR Minor omissions that would make replication difficult but in context</td> </tr> <tr> <td data-bbox="320 799 439 866">4 marks</td> <td colspan="2" data-bbox="439 799 1274 866">Replicable outline of how fear could be measured that is in context</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Attempt to outline how fear could be measured, but lacks detail and/or clarity and not replicable but not in context.		2 marks	Minor omissions that would prevent replication	OR Attempt to outline how fear could be measured, but lacks detail and/or clarity and not replicable but in context.	3 marks	Replicable outline of how fear could be measured but not in context	OR Minor omissions that would make replication difficult but in context	4 marks	Replicable outline of how fear could be measured that is in context		4	<p>-The measure of fear must be quantifiable. -Context is 'snakes'.</p> <p>-For 3 marks numerical values for rating scales is needed.</p> <p>-For 4 marks the scale needs to be labelled (ends and/or mid-points).</p> <p>- For 4 marks it must be clear who is doing the rating if a rating scale is used.</p> <p>-If verbal scales given cap at 2 marks.</p>
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4 marks	Replicable outline of how fear could be measured that is in context																	

Question	Answer	Marks	Guidance												
10	<p>Possible responses here include strengths of using a rating scale (e.g. produced quantifiable data, easy to compare fear of snakes across different people etc) and weaknesses (e.g. a number does not indicate more detailed reasons about how/why a person fears snakes etc).</p> <p>3 marks for strength, 3 marks for weakness</p> <table border="1" data-bbox="331 451 1290 762"> <tr> <td data-bbox="331 451 450 520">0 marks</td> <td colspan="2" data-bbox="450 451 1290 520">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="331 520 450 588">1 mark</td> <td colspan="2" data-bbox="450 520 1290 588">Attempt to outline strength /weakness, but lacks detail and/or clarity</td> </tr> <tr> <td data-bbox="331 588 450 692">2 marks</td> <td data-bbox="450 588 837 692">Clear outline of strength / weakness, but not in context</td> <td data-bbox="837 588 1290 692">OR Attempt to outline strength /weakness, but lacks detail and/or clarity but in context.</td> </tr> <tr> <td data-bbox="331 692 450 762">3 marks</td> <td colspan="2" data-bbox="450 692 1290 762">Clear outline of strength / weakness in context</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information		1 mark	Attempt to outline strength /weakness, but lacks detail and/or clarity		2 marks	Clear outline of strength / weakness, but not in context	OR Attempt to outline strength /weakness, but lacks detail and/or clarity but in context.	3 marks	Clear outline of strength / weakness in context		6	<p>-Context is 'snakes'</p> <p>-Ethical issues are acceptable but must be outlined appropriately and not just stated (e.g. 'reduces harm').</p>
0 marks	The candidate has not provided any creditworthy information														
1 mark	Attempt to outline strength /weakness, but lacks detail and/or clarity														
2 marks	Clear outline of strength / weakness, but not in context	OR Attempt to outline strength /weakness, but lacks detail and/or clarity but in context.													
3 marks	Clear outline of strength / weakness in context														

Question	Answer	Marks	Guidance						
11	<p>A positive correlation is where as the values of one variable increase, related values of the second variable also tend to increase (although not necessarily at the same rate).</p> <table border="1" data-bbox="338 349 1288 557"> <tr> <td data-bbox="338 349 454 419">0 marks</td> <td data-bbox="454 349 1288 419">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="338 419 454 489">1 mark</td> <td data-bbox="454 419 1288 489">Attempt to explain what a positive correlation is, but could be clearer</td> </tr> <tr> <td data-bbox="338 489 454 557">2 marks</td> <td data-bbox="454 489 1288 557">Clear explanation of a positive correlation</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information	1 mark	Attempt to explain what a positive correlation is, but could be clearer	2 marks	Clear explanation of a positive correlation	2	<p>-A sketch of a scattergraph displaying a positive correlation is fine, but must be accompanied by some explanatory text for full marks.</p> <p>-Reference to $DV = 0$ (as it implies causation).</p> <p>-Clear examples of positive correlations (whether in context or not) can achieve full marks.</p>
0 marks	The candidate has not provided any creditworthy information								
1 mark	Attempt to explain what a positive correlation is, but could be clearer								
2 marks	Clear explanation of a positive correlation								

Question	Answer	Marks	Guidance						
12	<p>Strengths could include: provides information about patterns/trends that can then be investigated more experimentally if desired; can be plotted visually in a scattergraph to see relationship clearly; enables us to make predictions based on the relationship between variables; when unethical or impractical to carry out an experiment; starting point for further research; etc.</p> <p>Weaknesses could include: does not inform us about cause-and-effect; the relationship revealed can be misleading; some variables cannot be correlated (only variables generating continuous data can be correlated)</p> <p>2 marks strength, 2 marks for weakness</p> <table border="1" data-bbox="331 655 1290 863"> <tr> <td data-bbox="331 655 450 724">0 marks</td> <td data-bbox="450 655 1290 724">The candidate has not provided any creditworthy information</td> </tr> <tr> <td data-bbox="331 724 450 793">1 mark</td> <td data-bbox="450 724 1290 793">Attempt to identify strength/weakness, but lacks some clarity</td> </tr> <tr> <td data-bbox="331 793 450 863">2 marks</td> <td data-bbox="450 793 1290 863">Strength/weakness clearly outlined</td> </tr> </table>	0 marks	The candidate has not provided any creditworthy information	1 mark	Attempt to identify strength/weakness, but lacks some clarity	2 marks	Strength/weakness clearly outlined	4	<p>-For full marks the strength and weakness cited must be specific to the correlational method, and not generic. For example, a weakness is that just because we might find a positive correlation between the variables it does not show cause and effect.</p> <p>-Citing quantitative data on its own is not sufficient to credit, but elaborating on it is creditworthy. A weak elaboration would gain one mark.</p> <p>-Reference to a relationship between an IV and a DV should not be credited.</p>
0 marks	The candidate has not provided any creditworthy information								
1 mark	Attempt to identify strength/weakness, but lacks some clarity								
2 marks	Strength/weakness clearly outlined								

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