

GCE

Psychology

Unit H167/01: Research methods

Advanced Subsidiary GCE

Mark Scheme for June 2017

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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.

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Mark Scheme

June 2017

Annotation	Meaning	
?	Unclear	
AE	Attempts evaluation	
1		

?	Unclear	
AE	Attempts evaluation	
BOD	Benefit of doubt	
CONT	Context	
×	Cross	
EVAL	Evaluation	
	Extendable horizontal line	
~~~~	Extendable horizontal wavy line	
IRRL	Significant amount of material which doesn't answer the question	
NAQ	Not answered question	
RES	Good use of resources	
<b>√</b>	Tick	
<b>v</b> .	Development of point	
<b>^</b>	Omission mark	

# Section A: Multiple choice

Question	Answer
1	D
2(a)	В
2(b)	С
3	D
4	С
5	А
6(a)	В
6(b)	С
6(c)	С
7	В
8	С
9	D
10	С
11	С
12	А

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## Section B: Research design and response

Question	Answer		Marks	Guidance	
13	Something like <i>The aim was to investigate how if / how much couples mimic (copy)</i> <i>each other's behaviour</i> Clearly written aim		Max 2	Context = couples, romance/relationship related, bar	
			2	1 mark e.g.	
	Clear aim, but not in context	<b>OR</b> attempt in context	1	To see how well people's behaviour	
	The candidate has not provided any creditworthy information		0	<ul> <li>indicates they are getting on with each other.</li> <li>Or</li> <li>To find out how much a people mimic each others behaviour</li> </ul>	

Des	cribe on	e strength of using the observation	method in this study. [3]		
Que	lestion Answer		Marks	Guidance	
14	(a)	Likely answers: more natural behaviour of couples recorded; ecological validity high etc Clear description of strength of the observation method in context		Max 3	Context = couples, mimic/mimicking, romance/relationship related, bar
				3	-
		Attempt to describe strength of observation method in context	<b>OR</b> Clear description of strength of observation method but not in context	2	
		Brief and/or weak attempt to desc (whether in context or not)	ribe strength of observation method	1	
		The candidate has not provided a	ny creditworthy information	0	

Des	scribe on	e weakness of using the observation	n method in this study. [3]		
Que	estion	Answer		Marks	Guidance
14 (b)		Likely answers: observer bias; social desirability effect if couples realize they are being observed; practical problems recording behaviours (e.g. view obscured at times) etc		romance/relationship related, bar	Context = couples, mimic/mimicking, romance/relationship related, bar Accept reference to ethical issues as a
		Clear description of weakness of the observation method in context		3	weakness
		Attempt to describe weakness of observation method in context	<b>OR</b> Clear description of weakness of observation method but not in context	2	
		Brief and/or weak attempt to describe weakness of observation method (whether in context or not)		1	
		The candidate has not provided an	y creditworthy information	0	-

Que	estion	Answer		Marks	Guidance
15	(a)	Likely answers: greater period of time overall can be studied (could increase validity); likely to be more representative			Context = couples, mimic/mimicking, romance/relationship related, bar
		Clear description of strength of tir	ne sampling in context	3	Strength must be specific to the use of
		Attempt to describe strength of time sampling in context	OR Clear description of strength of time sampling but not in context	2	time sampling, not the observation method in general
		Brief and/or weak attempt to desc (whether in context or not)	ribe strength of time sampling	1	
		The candidate has not provided a	ny creditworthy information	0	

Des	cribe one	e weakness of using time sampling i	in this study. [3]		
Que	Question Answer		Marks	Guidance	
15	(b) Likely answers: behaviours missed at times when observation recording not occurring		Max 3	Context = couples, mimic/mimicking, romance/relationship related, bar	
		Clear description of weakness of time sampling in context		3	Weakness must be specific to the use
		Attempt to describe weakness of	<b>OR</b> Clear description of weakness	2	of time sampling, not the observation
		time sampling in context	of time sampling but not in context		method in general
		Brief and/or weak attempt to descr (whether in context or not)	ibe weakness of time sampling	1	
		The candidate has not provided an	y creditworthy information	0	

Question	Answer		Guidance	
16	A naturalistic observation takes place in a real life setting whereas a controlled observation is conducted in a setting specifically created / arranged / set-up for the study	Max 2	Reference to variables is not necessarily incorrect but there must be a clear enough distinction about how	
	Difference clearly explained	2	the environment is manipulated in some	
	Attempt to explain difference	1	way to convey understanding of how it	
	The candidate has not provided any creditworthy information	0	differs from a naturalistic observation.	

Explain how you would conduct a study using the naturalistic observation method to investigate the extent to which couples mimic each
other's

behaviour whilst having a drink in a bar. Justify your decisions as part of your explanation. You must refer to:

-the use of behavioural categories (5 to 7)

- -time sampling
- -protection of participants

You should use your own experience of carrying out an experiment to inform your response.

Que	estion	Answe	Marks	Guidance
17			Max	-Context = bar/drink, couples
			12	Also accept (appropriate)
				behavioural categories as
				context?
				-For RF1 check there are at
				least 5 behavioural categories
				presented (otherwise counts
				as 'limited response')

Level of response	Details of required features (RFs) included	Justification of decisions made	Reference to own practical work
Good 10-12 marks	-All 3 required features addressed -Accurate and detailed knowledge and understanding of each feature in context -Good evidence of application of required features in context	-Appropriate justification of all decisions and <i>some</i> is contextualized -Well developed line of reasoning that is clear and logically structured	- <b>Explicit</b> reference to own practical work and clear links between own work and the planned research for each required feature. e.g. specific mention of aim or procedural features
<b>Reasonable</b> 7-9 marks	<ul> <li>-All 3 required features addressed</li> <li>-Reasonably accurate and detailed knowledge and understanding of each feature</li> <li>-At least two applications of required features in context</li> <li>If two required features are addressed in de links made to own practical work award 8 m</li> </ul>	•	-For top band (good) 10 marks if just one RF linked, 11 marks if two and 12 if all three -If there is no explicit clear link between own practical work and <i>any</i> of the 3 required features caps the mark at 9 maximum.
Limited 4-6 marks	<ul> <li>-Two of the required features addressed</li> <li>-Limited application of required features</li> <li>OR all required features referred to but in a limited way</li> <li>If one required feature addressed in detail a made to own practical work award 4 marks</li> </ul>		
<b>Basic</b> 1-3 marks	-One of the required features addressed -Weak application of required features OR more than one of the required features referred to but in a very brief and/or basic way	- <b>None</b> , or if present very weak	

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Question	uestion Answer		Marks	Guidance
18	Likely answers: the ability of two or more observers to look out for and record the behaviour of couples (mimicking each other's behaviour) in the same way.         Clear explanation of what inter-rater reliability refers to in context         Attempt to explain what inter-rater reliability refers to in context         Inter-rater reliability refers to in context         Inter-rater reliability refers to but inter-rater reliability refers to but not in context		Max 3	-Context = bar/drink, couples Also accept (appropriate) behavioural categories as context?
			3	Inter-rater reliability is not simply about
			2	being able to replicate the study/findings
	Brief and/or weak attempt to explai (whether in context or not)	ief and/or weak attempt to explain what inter-rater reliability refers to /hether in context or not)		-Reference to clarity about what the behavioural categories are and how to
	The candidate has not provided an	The candidate has not provided any creditworthy information		<ul> <li>interpret them is creditworthy to demonstrate understanding of what inter-rater reliability refers to</li> <li>-Cap at 1 mark if simply describing a way to check inter-rater reliability</li> </ul>

Que	estion	Answer		Marks	Guidance
19	(a)	For example Are you aware that of your partner?	you sometimes copy the behaviour	<ul> <li>Max 2 -Context = bar/drink, couples</li> <li>Also accept (appropriate) behavior</li> <li>categories as context?</li> </ul>	
		Appropriate open question clearly s	suggested in context	2	
		Attempt to suggest open question	<b>OR</b> clearly suggested open	1	
		in context	question but not in context		
		The candidate has not provided any	y creditworthy information	0	

Suggest one closed question that could have been used if the researcher had used the self-re	port method instead of the observation
method in this study. [2]	

Ques	tion	Answer		Marks	Guidance
19 (	(b)	For example Do you sometin time as your partner? yes / n	mes reach for your drink at the same o / not that I'm aware of	Max 2	-Context = bar/drink, couples Also accept (appropriate) behavioural categories as context?
		Appropriate closed question cle	early suggested in context	2	
		Attempt to suggest closed question in context	<b>OR</b> clearly suggested closed question but not in context	1	-Accept rating scales as closed question responses
		The candidate has not provided	d any creditworthy information	0	-The fixed response options must be included to qualify as a closed question For example "Do you ever mimic your partner's behaviour?" □yes □no. Do not credit where they are not (e.g. Just saying "Do you ever mimic you partner's behaviour?"

## Section C: Data analysis and interpretation

Question	Answer		Marks	Guidance
20	= 3:2		Max 2	Zero if answer not simplified
	Examples of workings			
	120:80, 60:40, 3:2			
	or simply stating divide each side by 40			
	Correct answer with some appropriate workings clearly shown		2	1
	Correct answer but no workings	<b>OR</b> some appropriate workings	1	7
	(or incorrect workings)	shown but no final answer stated		
	The candidate has not provided ar	y creditworthy information	0	1

Question	Answer		Marks	Guidance         -Context = laughing / laughter / funny         jokes         -No credit for just providing reasons         (e.g. saying 'nominal data') without
21	Chi square Reason: test of difference in males and females laughing with mouth open or not; independent measures (males v females) nominal data (laugh with mouth open or not)		Max 3	
	Inferential statistical test correctly identified with reasons (with at least one reason in context)		3	actually identifying the inferential test
	Test correctly identified and reasons given but not in context	<b>OR</b> test correctly identified with one reason in context	2	-No credit if incorrect test identified regardless of reasons provided
	Test correctly identified only (even	if reasons incorrect)	1	
	The candidate has not provided ar	y creditworthy information	0	

#### H167/01

Question	Answer	Marks	Guidance
22 (a)	Bar chart showing which category of jokes people find the funniest Bar chart showing which category of jokes people find the funniest Bar chart showing which category of jokes people find the funniest building approximately ap	Max 4	<ul> <li>-*A title is not necessary, but can add clarity to otherwise unclear labels on axes</li> <li>-Labels on axes must be clear. For example just putting 'category' instead of something like 'category of joke' is unclear (*but remember this can be clarified by a title if provided)</li> <li>-Cap at 3 marks if data presented as a histogram (i.e. no gap between bars) rather than a bar chart</li> </ul>
	AO2 1 mark is awarded for correctly presenting by value each marks bar representing all 6 categories of jokes people find funny 1 mark is awarded for clear labelling of the x axis 1 mark is awarded for clear labelling of the y axis 1 mark is awarded for units of measurement (total values) on the y axis (or x axis if the bar chart is presented the other way around)		
	All AO2 features included	4	_
	3 AO2 features included	3	
	2 AO2 features included	2	
	1 AO2 feature included	1	
	The candidate has not provided any creditworthy information	0	

Question	Answer		Marks	Guidance
22 (b)	= 31		Max 3	
	50/160 x 100 = 31.25 (presented	to two significant figures this is 31)		
	Correct answer with full workings	shown	3	
	Correct answer with workings shown for calculation of percentage but answer not presented to two significant figures	<b>OR</b> Correct answer but workings do not show percentage before conversion to 2 significant figures	2	
	Correct answer shown with no w	orkings	1	7
	The candidate has not provided a	any creditworthy information	0	7

Wha	at level o	of data is collected in this study? Ju	stify your answer. [2]		
Que	Question Answer		Marks	Guidance	
23	(a)	The level of data collected is nom relating to what people find funny	nal as it is just frequency counts	Max 2	-Context = laughing / laughter / funny / jokes
		Level of data correctly identified w context	ith appropriate justification in	2	_
		Level of data correctly identified but not justified	<b>OR</b> Level of data correctly identified and justified, but not in context	1	
		The candidate has not provided a	ny creditworthy information	0	

Que	stion	Answer		Marks	Guidance
23 (b)	(b)	Nominal data is easy to collect, analyse and display, but does not provide information about strength of opinion relating to why people find the things that they do funny or not		Max 3	-Context = laughing / laughter / funny / jokes
		Clear evaluation of the use of nor	ninal data in context	3	_
		Attempt to evaluate the use of nominal data in context	<b>OR</b> Clear evaluation of the use of nominal data but not in context	2	
		Attempt to evaluate the use of no	minal data (whether in context or not)	1	
		The candidate has not provided a	any creditworthy information	0	1

Outline tw	o conclusions from the data collecte	d in this study. [3]		
Question	Answer	Answer		Guidance
24	•		Max 4	-Context = laughing / laughter / funny / jokes -Must be a conclusion (i.e. involved some interpretation of the data) rather than just a finding
	2 marks for each conclusion	2 marks for each conclusion Conclusion clearly outlined in context		
	Conclusion clearly outlined in cor			-Cap at 1 mark max if only findings are
	Conclusion clearly outlined but not in context	<b>OR</b> attempt to outline conclusion in context	1	outlined (whether one or two findings). If a finding and a conclusion are
	The candidate has not provided a	ny creditworthy information	0	presented then only the conclusion receives credit (nothing is awarded for the finding)

Question	Answer		Marks	Guidance
25	For example -People may have been too self conscious and embarrassed to disclose things about what they find funny, such as jokes about sex Etc etc		Max 4	-Context = laughing / laughter / funny / jokes
	2 marks for each way social desirability may have influenced the data			_
	Clear suggestion of a way social desirability may have influenced the data in context		2	_
	Clear suggestion of a way social desirability may have influenced the data but not in context	<b>OR</b> attempt to suggest a way social desirability may have influenced the data in context	1	
	The candidate has not provided any creditworthy information		0	-

The End

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