

### **GCE**

## **Psychology**

Unit H167/01: Research methods

Advanced Subsidiary GCE

Mark Scheme for June 2017

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### H167/01 Mark Scheme June 2017

These are the annotations, (including abbreviations), including those used in scoris, which are used when marking

Annotation	Meaning
?	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>√.</b>	Development of point
^	Omission mark

## **Section A: Multiple choice**

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

## **Section B: Research design and response**

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

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

Question		Answer	Answer		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		Max 3	ax 3 Context = couples, mimic/mimicking, romance/relationship related, bar  Accept reference to ethical issues as
		Clear description of weakness of the observation method in context		3	weakness
		Attempt to describe weakness of observation method in context	OR Clear description of weakness of observation method but not in context	2	
		Brief and/or weak attempt to descr 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 time 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)	cribe strength of time sampling	1	
		The candidate has not provided a	ny creditworthy information	0	

Des	scribe one	e weakness of using time sampling	in this study. [3]		
Que	estion	Answer		Marks	Guidance
15	15 (b) Likely answers: behaviours recording not occurring		d at times when observation	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	OR Clear description of weakness	2	of time sampling, not the observation
		time sampling in context	of time sampling but not in		method in general
			context		
		Brief and/or weak attempt to descr	ibe weakness of time sampling	1	
		(whether in context or not)			
		The candidate has not provided ar	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	Answer	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 Reasonable	-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 -All 3 required features addressed	-Appropriate justification of all decisions and some is contextualized -Well developed line of reasoning that is clear and logically structured -Some appropriate justification of	-Explicit 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
7-9 marks	-Reasonably accurate and detailed knowledge and understanding of each feature  -At least <b>two</b> applications of required features in context  If two required features are addressed in delinks made to own practical work award 8 m	decision related to all three required features (7 marks if only two required features justified)  -There was a line of reasoning evident with some structure etail and justified in context and explicit	-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	-Two of the required features addressed -Limited application of required features OR all required features referred to but in a limited way If one required feature addressed in detail a made to own practical work award 4 marks		
Basic 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	-None, or if present very weak	

What do	oes inte	er-rater reliability refer to in this stu	udy? [3]		
Questio	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.		Max 3	-Context = bar/drink, couples Also accept (appropriate) behavioural categories as context?
		Clear explanation of what inter-rate	er reliability refers to in context	3	-Inter-rater reliability is not simply about
		Attempt to explain what inter-rater reliability refers to in context	OR Clear explanation of what inter-rater reliability refers to but not in context	2	being able to replicate the study/findings
	Brief and/or weak attempt (whether in context or not)		plain what inter-rater reliability refers to	1	-Reference to clarity about what the behavioural categories are and how to
		The candidate has not provided any creditworthy information		0	interpret them is creditworthy to demonstrate understanding of what inter-rater reliability refers to
					-Cap at 1 mark if simply describing a way to check inter-rater reliability

_	_	e open question that could have beer this study. [2]	n used if the researcher had used th	ne self-repo	ort method instead of the observation
Que	stion	Answer		Marks	Guidance
19	(a)	For example Are you aware that you sometimes copy the behaviour of your partner?		Max 2	-Context = bar/drink, couples Also accept (appropriate) behavioural categories as context?
		Appropriate open question clearly s	suggested in context	2	
		Attempt to suggest open question in context	OR clearly suggested open question but not in context	1	
		The candidate has not provided an	y creditworthy information	0	

Question	estion Answer		Marks	Guidance
19 (b)	For example Do you sometimes reach for your drink at the same time as your partner? yes / no / not that I'm aware of		Max 2	-Context = bar/drink, couples Also accept (appropriate) behavioural categories as context?
	Appropriate closed question clearly suggested in context		2	
	Attempt to suggest closed question in context	OR 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**

What is the ratio of people who like it when practical jokes are played on them to those that do not? Present your answer in its simplest form and show your workings. [2]

Que	stion		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		
		Correct answer but no workings  OR some appropriate workings		1		
			(or incorrect workings)	shown but no final answer stated		
		The candidate has not provided any creditworthy information		0		

Identify the appropriate inferential statistical test to use in this study to analyse the data obtained from the question asking about whether people laugh with their mouth open or not. Give reasons for your answer. [3]

Question	Answer		Marks	Guidance
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	-Context = laughing / laughter / funny / jokes -No credit for just providing reasons
	Inferential statistical test correctly identified with reasons (with at least one reason in context)		3	(e.g. saying 'nominal data') without actually identifying the inferential test
	Test correctly identified and reasons given but not in context one reason in context one reason in context		-No credit if incorrect test identified regardless of reasons provided	
	Test correctly identified only (even if reasons incorrect)		1	
	The candidate has not provided a	ny creditworthy information	0	

# Draw a bar fully labelled bar chart to display the data from the question asking people about which category of jokes they find the funniest. [4] Question Answer Marks Guidance 22 (a) Answer Marks Guidance

	Answer		Guidance
22 (a)	Bar chart showing which category of jokes people find the funniest  by Septiment 10	Max 4	-*A title is not necessary, but can add clarity to otherwise unclear labels on axes  -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)  -Cap at 3 marks if data presented as a histogram (i.e. no gap between bars) rather than a bar chart
	AO2 I mark is awarded for correctly presenting by value each bar representing all 6 categories of jokes people find funny mark is awarded for clear labelling of the x axis I mark is awarded for clear labelling of the y axis I 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  3 AO2 features included	4 3	
	2 AO2 features included	2	
	1 AO2 feature included  The candidate has not provided any creditworthy information	1 0	

## Calculate the percentage of people who reported 'sex' as the category of jokes they found the funniest. Show your workings and present your finding to 2 significant figures. [3] Question Answer Marks Guidance

Que	Question		Answer		iviai KS	Guidance
22	(b)		= 31		Max 3	
			50/160 x 100 = 31.25 (presented	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	OR Correct answer but workings do not show percentage before conversion to 2 significant figures	2	
			Correct answer shown with no wo	orkings	1	
			The candidate has not provided a	ny creditworthy information	0	

Que	uestion Answer		Marks Max 2	Guidance -Context = laughing / laughter / funny / jokes	
23 (a)		The level of data collected is nominal as it is just frequency counts relating to what people find funny			
		Level of data correctly identified with appropriate justification in context		2	
		Level of data correctly identified but not justified	OR Level of data correctly identified and justified, but not in context	1	
		The candidate has not provided a	ny creditworthy information	0	

Question	Answer		Marks	Guidance
23 (b)	find the things that they do funny	h of opinion relating to why people or not	Max 3	-Context = laughing / laughter / funny / jokes
	Clear evaluation of the use of nor	minal data in context	3	
	Attempt to evaluate the use of	OR Clear evaluation of the use of	2	
	nominal data in context	nominal data but not in context		
	Attempt to evaluate the use of no	ttempt to evaluate the use of nominal data (whether in context or not) he candidate has not provided any creditworthy information		
	The candidate has not provided a			7

Outline tv	vo conclusions from the data collected	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 con	Conclusion clearly outlined in context		-Cap at 1 mark max if only findings are
	Conclusion clearly outlined but not in context	OR 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			Marks Max 4	Guidance -Context = laughing / laughter / funny / jokes
25				
			2	
	Clear suggestion of a way social desirability may have influenced the data but not in context	OR attempt to suggest a way social desirability may have influenced the data in context	1	
	The candidate has not provided ar	ny creditworthy information	0	

The End

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