

### **GCE**

## **Psychology**

H167/01: Research methods

Advanced Subsidiary GCE

**Mark Scheme for June 2019** 

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

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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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

### **Mark Scheme**

## **Section A: Multiple choice**

Ques	Answer
1	С
2	А
3	D
4	Α
5	Α
6	С
7	Α
8	В
9	С
10	В
11	В
12	А
13	В
14	В
15	С

### Section B: Research design and response

Explain how you would use the self-report method to investigate morality.

You must refer to:

[12]

- -the use of a structured interview
- -one question that uses a semantic differential scale
- -one question that would produce nominal data

You should use your own experience of practical activities to inform your response.

Qu	estion	Answei	Marks	Guidance
16			Max	-Context = morality, morals,
			12	good/bad, right/wrong

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 some is contextualized -Well developed line of reasoning that is clear and logically structured	-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
Reasonable 7-9 marks	-Reasonably accurate and detailed knowledge and understanding of each feature  -At least <b>two</b> applications of required features in context	-Some appropriate justification of 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	-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.
	If two required features are addressed in de links made to own practical work award 8 m	narks	
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	-Attempt to justify decision(s) but weak -Evidence of some structure, but weak	NB: Likert Scale not creditworthy
	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	

Writ	e an ap	propriate research aim for the study. [2]		
Que	stion	Answer	Marks	Guidance
17		Something like The aim was to investigate moral reasoning OR The aim was to find out what kind of things may influence how people decide what is right or wrong Etc etc Clearly written aim	Max 2	-Context = morality, morals, good/bad, right/wrong
		Attempt to write aim	1	
	The candidate has not provided any creditworthy information		0	
	-	appropriate sample for this study. [1]		
	stion	Answer	Marks	Guidance
18	(a)	Likely responses: 'young children'; primary school children	Max 1	-Context = morality, morals, good/bad, right/wrong
		Appropriate sample identified	1	-Accept age ranges provided
		The candidate has not provided any creditworthy information	0	-Sample size is not required but can be creditworthy as part of the response -Sample size alone (e.g. just saying '20 people') is not creditworthy -Must refer to children/childhood in some way.  EG- sample may consist of parents/ teacher of young children being used to interview the children

Question	Answer	Marks	Guidance
18 (b)	Likely answer:  'Young children' as the research is aimed at investigating morality in young children and needs to obtain the thoughts and ideas of such a group.	Max 3	-Context = morality, morals, good/bad, right/wrong  -Must refer to children/childhood in some way. eg- justification may consist of parents/
	Clear justification of choice of sample in context	3	teacher of young children being used to
	Clear justification of choice of sample but not in context	2	interview the children.
	Attempt to justify choice of sample (whether in context or not)	1	
	The candidate has not provided any creditworthy information	0	

Outl	line on	strength of the use of open question	ns in this study. [3]		
Que	stion	Answer	Answer		Guidance
19	(a)	-	Likely answers: can provide more detail about the reasons why children have the morals that they do; allows for greater elaboration about influences on morality		-Context = morality, morals, good/bad, right/wrong Qualitative on its own = 1 mark
		Clear outline of strength in context	t	3	
		Attempt to outline strength in context	OR Clear outline strength but not in context	2	
		Brief and/or weak attempt to outling not)	e strength (whether in context or	1	
	The candidate has not provided any creditworthy information		0		
Outl	ine on	e weaknesses of the use of open que	stions in this study. [3]		
Que	stion	Answer		Marks	Guidance
19	(b)	Likely answers: can be more diffic responses about morality	ult to interpret and analyse	Max 3	-Context = morality, morals, good/bad, right/wrong
		Clear outline of weakness in conte	ext	3	Difficulties in making comparisons as a
		Attempt to outline weakness in	OR Clear outline weakness but	2	weakness is creditworthy.
		context	not in context		
		Brief and/or weak attempt to outlin	ne weakness (whether in context or	1	
		not)			
		The candidate has not provided ar	ny creditworthy information	0	

Outline two	ine two ways that you would address the ethical consideration of 'respect' in t			f this self-report study. [6]		
Question	Answer		Answer		Marks	Guidance
20	Under the new (2015) BPS guidelines the ethical consideration of 'respect' covers: general respect, informed consent, withdrawal, privacy and confidentiality.  Likely answers could include: obtaining parental consent for children under the age of 16; only using children aged 16+ and asking them about their thoughts about morality when they were younger; allowing children to stop participating if they asked to do so, showed any signs of distress; not recording actual names linked to the data collected about morality; only using fictitious accounts in any scenarios used		Max 6	-Context = morality, morals, good/bad, right/wrong  -Responses must relate to the ('new' 2015) BPS guidelines covering 'respect' general respect (respect people's individuality and not show prejudice etc)— i.e.: Informed consent; consent, withdrawal; privacy, confidentiality (anonymity) are all creditworthy.		
	when questioning children about morality  Etc					
	3 marks for each ethical issue addressed					
	Clear outline of how to address eth	nical issue of 'respect' in context	3			
	Attempted outline of how to address ethical issue of 'respect' in context	OR clear outline of how to address ethical issue of 'respect' but not in context	2			
	Brief and/or weak outline of how to (whether in context or not)	address ethical issue of 'respect'	1			
	The candidate has not provided an	y creditworthy information	0			

Outline one	ne one strength of the use of an interview rather than a written questionnaire in this study. [3]			y. [3]
Question Answer				Guidance
21			Max 3	-Context = morality, morals, good/bad, right/wrong  participants are more likely to be honest
			3	is creditworthy.
	Attempt to outline strength in context	OR Clear outline of strength but not in context	2	
	Brief and/or weak attempt to out not)	Brief and/or weak attempt to outline strength (whether in context or not)		
	The candidate has not provided	any creditworthy information	0	

Identify one	one thing that may lower the generalisability of the findings from this study. [2]			
Question	Answer		Marks	Guidance
22	Likely answers: biased sample (e.g. in terms of its size or diversity or gender or age ranges etc); nature of the questions asked (e.g. if too restricted / limiting – enquiring about only one specific aspect of morality etc)  Clear identification of something that could lower generalisability in context		Max 2	-Context = morality, morals, good/bad, right/wrong
			2	
	Clear identification of something that could lower generalisability, but not in context	OR attempt to identify something that could lower generalisability in context or not	1	
	The candidate has not provided ar	ny creditworthy information	0	

## **Section C: Data analysis and interpretation**

Question	Answer		Marks	Guidance
23	Conclusions could include: there was a big variety in the number of hours of exercise taken each month, ranging from 0 to 60 hours suggesting that some people either don't have the time or don't value taking exercise; Ratings of stress varied a lot, from 10 to 100 suggesting that stress affects people in many different ways and some people are able to cope with stress better than others perhaps; the relationship between stress and exercise is mixed, as some people who take a lot of exercise (e.g. person 'j') seem to have a lot of stress in their life, whereas for others (e.g. person 'a') taking a lot of exercise is associated with lower levels of stress. So perhaps there is no significant relationship between exercise and stress, so if there is a benefit this does not apply everyone.  Accept any other appropriate conclusions here.		6	-Context = stress and exercise etc  -Clear (explicit) interpretation of findings (not simply stating a finding) is required for top band  -explicit reference to cause-and-effect is not creditworthy
	3 marks for each conclusion Clear, detailed response in context		3	_
	Clear, detailed response but not in context	OR attempt in context	2	
	Brief and/or weak attempt to outline a conclusion (whether in context or not)	OR simply stating a finding	1	
	The candidate has not provided ar	y creditworthy information	0	

Question	Answer	Marks	Guidance
24	Scatterdiagram showing the relationship between amount of exercise taken each month and stress  120 100 80 40 20 0		-*A title is not essential, but can add clarity to otherwise unclear labels on axes  -Labels on axes must be clear. For example just putting 'exercise' is unclear (*but remember this can be clarified by a title if provided)  co-variables exercise or stress can be or x or y axis.
	O 10 20 30 40 50 60 70  Average number of hours exercise taken each month		
	mark is awarded for correctly plotting the data     mark is awarded for clear labelling of the x axis     mark is awarded for clear labelling of the y axis     mark is awarded for units of measurement on both axes		
	All features included	4	
	3 features included	3	
	2 features included	2	
	1 feature included	1	
	The candidate has not provided any creditworthy information		1

Question	Answer		Marks	Guidance
25	Possible things include: participa	ints not wanting to disclose how in (social desirability); participants not	Max 6	-Context = stress and exercise etc
	wanting to disclose how much st	• • • • • • • • • • • • • • • • • • • •		-Accept as creditworthy the
		a quantitative scale to convey stress		acknowledgement that it would not be
	experienced (can only report the	•		valid to try to establish cause-and-effect
	experienced) etc etc.	amount, not type of on oce		from the data collected in a correlation
	For each thing 3 marks max			study
	Clear outline in context		3	_
	Attempted outline in context	OR Clear outline, but not in context	2	-Accept sample size as something that could affect validity.
	Brief and/or weak outline (wheth	er in context or not)	1	-accept extraneous variables
	The candidate has not provided	any creditworthy information	0	-subjective interpretation -individual differences
1				
this study	[3]	e appropriate non-parametric inferent		al test to use to analyse the data from
this study Question	[3] Answer	e appropriate non-parametric inferent	Marks	Guidance
this study	Answer Reasons:			
this study Question	Answer  Reasons: -test of correlation/relationship (a	and the study investigated the	Marks	Guidance
this study Question	Reasons: -test of correlation/relationship (a relationship between exercise ar	and the study investigated the and stress)	Marks	Guidance
this study Question	Reasons: -test of correlation/relationship (a relationship between exercise ar - at least ordinal data collected (	and the study investigated the and stress)	Marks	Guidance
this study Question	Answer  Reasons: -test of correlation/relationship (a relationship between exercise ar - at least ordinal data collected (ratings of stress)	and the study investigated the and stress) number of hours exercised and	Marks	Guidance
this study Question	Reasons: -test of correlation/relationship (a relationship between exercise ar - at least ordinal data collected ( ratings of stress) Two appropriate reasons provide	and the study investigated the and stress) number of hours exercised and	Marks Max 3	Guidance
this study Question	Reasons: -test of correlation/relationship (a relationship between exercise ar - at least ordinal data collected ( ratings of stress) Two appropriate reasons provide	and the study investigated the nd stress) number of hours exercised and ed, both in context ed, but only one, or neither in context	Marks Max 3	Guidance

# After carrying out a Spearman's Rho inferential statistical test the calculated value obtained was $r_s = -0.37$ . Explain what this means. [3]

Question	Answer		Marks	Guidance
27	This means that there was a weak, amount of exercise taken each mo	•	Max 3	-Context = stress and exercise etc
	experienced.			-Any reference to 'difference' as opposed to correlation or relationship
	Reference to both the strength (we correlation in context	ak) and direction (negative) of the	3	between exercise and stress is not creditworthy.
	Reference to both the strength (weak) and direction (negative) of the correlation, but not in context	OR Reference to either the strength (weak) OR direction (negative) in context	2	
	Reference to either the strength (weak) or direction (negative) of the correlation, but neither in context.		1	
	The candidate has not provided an	y creditworthy information	0	

The standard deviation was calculated for the number of hours exercised each month and found to be 18.275666882497. (a) What is this written to two significant figures? [1]

Que	stion	Answer	Marks	Guidance
28	(a)	18	Max 1	
		Correct answer written to two significant figures	1	
		The candidate has not provided any creditworthy information	0	

Question	Answer		Marks Max 2	Guidance  Explanation must be focused on standard deviation.
28 (b)	This informs us that the amount of exercise taken by each participant each month varies quite a lot, with some individuals engaging in a lot more exercise than others.			
	Clear explanation in context		2	
	Clear explanation but not in context	OR attempted explanation in context or not	1	
	The candidate has not provided any creditworthy information		0	1

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