

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	
X	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	
<ul> <li>Image: A second s</li></ul>	Tick	
1.	Development of point	
A	Omission mark	

#### Mark Scheme

PMT

# **Section A: Multiple choice**

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

## Section B: Research design and response

You must ref	er to:	to investigate morality. [12]
-the u	se of a structured interview	
-one o	uestion that uses a semantic diffe	tial scale
-one o	uestion that would produce nomin	data
		data actical activities to inform your response.
You s		
	hould use your own experience of	actical activities to inform your 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	-All 3 required features addressed -Reasonably accurate and detailed knowledge and understanding of each feature	- <b>Some</b> appropriate <b>justification</b> of decision related to all three required features (7 marks if only two required features justified)	-For top band (good) 10 marks if just one RF linked, 11 marks if two and 12 if all three
	-At least <b>two</b> applications of required features in context If two required features are addressed in de		-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	links made to own practical work award 8 m -Two of the required features addressed	-Attempt to justify decision(s) but weak	
4-6 marks	-Limited application of required features OR all required features referred to but in a limited way	-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		
<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	

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

Just	Justify the choice of sample you have identified. [3]					
Question		Answer		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	<ul> <li>-Context = morality, morals, good/bad, right/wrong</li> <li>-Must refer to children/childhood in some way.</li> <li>eg- justification may consist of parents/</li> </ul>		
		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			

Questio	on	Answer		Marks	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		Max 3	-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	<b>OR</b> Clear outline strength but not in context	2	
		Brief and/or weak attempt to outline strength (whether in context or not)		1	
		The candidate has not provided a	ny creditworthy information	0	_
Outline	one w	veaknesses of the use of open que	stions in this study. [3]		<u>.</u>
Questio	on	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 context		3	Difficulties in making comparisons as a
		Attempt to outline weakness in context	<b>OR</b> Clear outline weakness but not in context	2	weakness is creditworthy.
		Brief and/or weak attempt to outline weakness (whether in context or not)		1	
		The candidate has not provided any creditworthy information		0	1

Outline two	ways that you would address the etl	nical consideration of 'respect' in the	ne design o	f this self-report study. [6]
Question	Answer		Marks	Guidance
20	<ul> <li>Under the new (2015) BPS guidelines the ethical consideration of 'respect' covers: general respect, informed consent, withdrawal, privacy and confidentiality.</li> <li>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 when questioning children about morality</li> </ul>		Max 6	<ul> <li>-Context = morality, morals, good/bad, right/wrong</li> <li>-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.</li> </ul>
	3 marks for each ethical issue addressed			
	Clear outline of how to address ethical issue of 'respect' in context		3	
	Attempted outline of how to address ethical issue of 'respect' in context	<b>OR</b> 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	ny creditworthy information	0	

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Question	Answer		Marks	Guidance
21	Likely answers: can see participant's response; can seek clarification / elaboration on points made; can explain questions better. In comparison to a questionnaire.		Max 3	-Context = morality, morals, good/bad, right/wrong participants are more likely to be hones
	Clear outline of strength in context with explicit reference to a guestionnaire.		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 outline strength (whether in context or not)		1	
	The candidate has not provided	any creditworthy information	0	

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)		Max 2	-Context = morality, morals, good/bad, right/wrong
	Clear identification of something that could lower generalisability in context		2	_
	Clear identification of something that could lower generalisability, but not in context	<b>OR</b> attempt to identify something that could lower generalisability in context or not	1	
	The candidate has not provided any creditworthy information		0	-

#### PMT

# Section C: Data analysis and interpretation

Outline two	conclusions that can be made from	the data collected in this study. [6]		
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.		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
	Accept any other appropriate conclusions here.			
	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)	<b>OR</b> simply stating a finding	1	
	The candidate has not provided an	y creditworthy information	0	

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

Question	Answer		Marks	Guidance
25	Possible things include: participants not wanting to disclose how much/little exercise they engage in (social desirability); participants not wanting to disclose how much stress they experience for fear of embarrassment; problems using a quantitative scale to convey stress experienced (can only report the amount, not type of stress experienced) etc etc.		Max 6	-Context = stress and exercise etc -Accept as creditworthy the acknowledgement that it would not be valid to try to establish cause-and-effect from the data collected in a correlation
	For each thing 3 marks max Clear outline in context		2	study
	Attempted outline in context	<b>OR</b> 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
	-	e appropriate non-parametric inferent	tial statistic	al test to use to analyse the data from
Explain why this study.   Question	-	e appropriate non-parametric inferent	tial statistic Marks	al test to use to analyse the data from Guidance
this study.	[3]	and the study investigated the nd stress)		-
this study. Question	[3] Answer Reasons: -test of correlation/relationship (a relationship between exercise an - at least ordinal data collected (	and the study investigated the nd stress) number of hours exercised and	Marks	Guidance
this study. Question	[3] Answer Reasons: -test of correlation/relationship (a relationship between exercise an - at least ordinal data collected ( ratings of stress) Two appropriate reasons provide	and the study investigated the nd stress) number of hours exercised and	Marks Max 3	Guidance
this study. Question	[3] Answer Reasons: -test of correlation/relationship (a relationship between exercise an - 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

Question	Answer		Marks	Guidance
27	This means that there was a weak, negative correlation between the amount of exercise taken each month and the amount of stress experienced.		Max 3	-Context = stress and exercise etc -Any reference to 'difference' as opposed to correlation or relationship
	Reference to both the strength (weak) and direction (negative) of the correlation in context		3	between exercise and stress is not creditworthy.
	Reference to both the strength (weak) and direction (negative) of the correlation, but not in context	<b>OR</b> 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 any creditworthy information		0	
	rd deviation was calculated for the nu this written to two significant figures?		nth and fou	nd to be 18.275666882497.
Question	Answer		Marks	Guidance
28 (a)	18		Max 1	
	Correct answer written to two signif	icant figures	1	
	The candidate has not provided any creditworthy information		0	1

Question	Answer		Marks	Guidance
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.		Max 2	Explanation must be focused on standard deviation.
	Clear explanation in context		2	
	Clear explanation but not in	<b>OR</b> attempted explanation in	1	
	context	context or not		
	The candidate has not provided	0		

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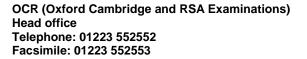
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