

## **Cambridge Assessment International Education**

Cambridge International Advanced Subsidiary and Advanced Level

PSYCHOLOGY 9698/21

Paper 2 Core Studies 2

October/November 2017

MARK SCHEME
Maximum Mark: 70

## **Published**

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Question	Answer	Marks
1	Thigpen and Cleckley used a case study to investigate multiple personality disorder. This method can have issues of validity.	
1(a)	Describe different types of validity.	5
	Any five correct points 1 mark for each point up to a maximum of five points No answer or incorrect answer, 0	
	<ul> <li>Indicative content:</li> <li>Validity – measuring what the experimenter intends to measure/whether the DV appears to measure what is intended</li> <li>Face validity – looks like it is measuring what it intends to measure.</li> <li>Ecological validity – whether the study is true to life</li> <li>Construct validity – construct validity refers to the ability of a measurement tool (e.g. a survey, test, etc.) to actually measure the psychological concept being studied</li> <li>Concurrent validity – is demonstrated where a test correlates well with a measure that has previously been validated</li> <li>Population validity – which refers to the extent to which the findings can be generalised to other populations of people</li> </ul>	
	Any other appropriate point	
	Award a maximum of 2/5 marks for terminology on its own. No credit given for the term validity on its own but the general definition can get a mark.	

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Question	Answer		Marks
1(b)	Design an alternative study of multiple personality disorder and describe how it could be conducted. You must <u>not</u> use the case study method.		
	Candidates need to describe the who, what, where and how.		
	Major omissions include the what and how. Candidates must describe data would be collected from the participants (e.g. observations/interviewhat this data will look like (e.g. examples of behaviours observed and questions asked).	ews) and	
	Minor omissions include who and where.		
	It is possible to achieve 9 marks with a small minor omission (e.g. sam method).	pling	
	Maximum 6 marks if case study method is used. Very unethical studies studies that do not investigate multiple personality disorder/different sign personality are capped at 4.		
	Alternative study is incomprehensible.	0	
	Alternative study is muddled and impossible to conduct.	1–2	
	Alternative study is muddled and/or major omissions but possible	3–4	
	Alternative study is clear with a few minor omissions and possible	5–6	
	Alternative study is described with one minor omission and in some detail.	7–8	
	Alternative study is described in sufficient detail to be replicable.	9–10	

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Question	Answer		Marks
1(c)	Evaluate this alternative way of studying multiple personality disc practical and methodological terms.	order in	10
	Indicative content –		
	Candidates need to consider a number of points regarding their study. points can be positive and/or negative.	These	
	Appropriate points could include a discussion about ethics of the study Improvements to validity (and possibly new problems that could arise validity).  Reliability.  Ecological validity of the study. Qualitative/quantitative data as both may be collected.  Researcher bias.  Generalisability is often poor as the sample is often small.  Demand characteristics – participants may become aware of the aim. Subject attrition.  Over involvement of researcher.  Any other appropriate point.  In order to achieve higher marks (5+) the candidate must link their point their investigation described in part (b).	with	
	No comment on practical/methodological issues.	0	
	Comment on practical and/or methodological issues is muddled and weak.	1–2	
	Comment on practical and methodological issues which is not specific to the investigation  OR Comment on one issue which is simplistic but specific to investigation.	3–4	
	Consideration of both practical and methodological issues which is simplistic and/or brief but specific to investigation <b>OR</b> Consideration of one issue which is detailed and specific to investigation.	5–6	
	Consideration of both practical and methodological which is good, in some detail and specific to investigation.	7–8	
	Consideration of practical and/or methodological issues which is detailed and directly relevant to the investigation.	9–10	

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Question	Answer	Marks
2	Loftus and Pickrell (false memories) conducted a study that used self reports.	
2(a)	What is meant by 'quantitative data' in psychology?	2
	1 mark partial 2 marks full.	
	Data that is numerical/numbers – 1 mark. Data that is numerical/numbers with an example of method that could collect it (e.g. psychometrics) <i>or</i> that it can be analysed statistically <i>or</i> similar statement – 2 marks.	
2(b)	Describe two quantitative results from the Loftus and Pickrell study.	3
	1–2 marks partial 3 marks full	
	Numerical results must be given at least once to achieve full marks.	
	Indicative content Anything from – (see pages 722–723 of original study) Recalled something about 49 of the 72 true events (68%) 25% or 6 of the 29 false events were recalled. More words were used when describing the true event than when describing the false event (138.0 average words for true and 49.9 for the false event) Any other appropriate piece of data.	
	1 mark = one described difference 2 marks = two described differences 3 marks = two described differences and one with data Note: just one described difference with two pieces of data from that difference = 2 marks	

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Question	Answer		Marks
2(c)	Discuss the strengths and weaknesses of quantitative data, using Loftus and Pickrell study as an example.	j the	10
	Appropriate strengths and weaknesses will be varied.		
	Strengths	t giving a	
	<ul> <li>Less useful due to lack of detail.</li> <li>Participants cannot say how they really feel about something.</li> <li>With rating scales participants interpret the scales differently.</li> </ul>		
	No comment on quantitative data.	0	
	Comment given but muddled and weak.	1–2	
	Consideration of both strengths and weaknesses but not specific to investigation  OR Consideration of either strength or a weakness but is simplistic but specific to investigation.	3–4	
	Consideration of two or more points (at least one strength and one weakness) which are clear and specific to the investigation.	5–6	
	Consideration of both strengths and weaknesses which is good but brief and specific to investigation.	7–8	
	Consideration of both strengths and weaknesses which is detailed and directly relevant to the investigation.	9–10	

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Question	Answer		Marks
2(d)	Compare the cognitive approach with <u>one</u> other approach in psycusing studies as examples.	chology	10
	Indicative content: Candidates may describe/evaluate approaches with no comparison porthese candidates can achieve up to 4 marks maximum.	int.	
	<ul> <li>Appropriate comments</li> <li>Both approaches are useful</li> <li>Both approaches are reductionist (or one is reductionist and the or holistic)</li> <li>Both approaches do studies that can have good ecological validity is good and the other is poor)</li> <li>Both approaches are deterministic (or one is deterministic and the shows free will)</li> <li>Time period when approaches were developed in psychology</li> <li>Both approaches can have wide and varied samples (or one does other doesn't or both do not have good generalisability)</li> </ul>	y (or one e other	
	Any other appropriate comment.		
	No comment on comparison of approaches.	0	
	Comment given but muddled and weak.	1–2	
	Comparison of approaches but not specific to investigation(s) OR Consideration of comparisons of approaches which is simplistic but specific to investigation.	3–4	
	Consideration of comparison of approaches which is simplistic and/or brief but specific to investigation OR Consideration of comparison of approaches which is detailed and specific to investigation.	5–6	
	Consideration of comparison of approaches which is good, in some detail and specific to investigation.  OR Consideration of one comparison issue which is detailed and directly relevant to the investigation and the other issue is more simplistic.	7–8	
	Consideration of comparison of approaches which is detailed and directly relevant to the investigation.	9–10	
3(a)	Outline what is meant by the 'physiological approach' in psychological	ogy.	2
	1 mark partial 2 marks full		
	The physiological approach is the scientific study of biological and physiological processes in the body and the effect these have on beha and psychological states.	aviour	
	Can give up to 1 mark for an example on its own.		
	Appropriate answers could include assumptions of the physiological ap	oproach.	

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9

Question	Answer		Marks
Dement an Maguire et	d Kleitman (sleep and dreaming) al. (taxi drivers) and Singer (emotion)		
3(b)	Describe the physiological processes investigated in each of the studies.	se	9
	Indicative content: Most likely answers (any appropriate answer receivedit):	res	
	<b>Dement and Kleitman</b> : Measured the EEG and EOG of the participar study. Looked at the relationship between REM and N-REM sleep and presence or absence of dreaming reported by the participants. Investiglink between dream content and the direction of eye movement.	I the	
	Maguire et al.: The experience of learning 'The Knowledge' has poter caused a change in the function of brain activity in specific areas of the drivers. Landmarks and routes activated occipitotemporal regions, poscingulate gyrus, medial parietal area and the parahippocampal gyrus to the baseline. The main difference was in the right hippocampus whi activated during the routes task.	e taxi sterior compared	
	Schachter and Singer: Investigated the two factor theory of emotion. Investigated the effect of the information given to someone while they experiencing a physiological effect in their body and looked at the effe can have on the reported experience of emotion.		
	For each study		
	No answer or incorrect answer.	0	
	Identification of point relevant to question but not related to study or comment from study but no point about physiological processes from the study.  The description may be very brief or muddled.	1	
	Description of point about physiological processes from the study. (Comment with a lack of understanding). A clear description that may lack some detail.	2	
	As above but with analysis (comment with comprehension) about physiological processes from the study. A clear description that is in sufficient detail.	3	
			1

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Max mark

Question	Answer		Marks
3(c)	<ul> <li>What problems may psychologists have when they investigate physiological processes?</li> <li>Emphasis on problem. Answers supported with named (or other) stud problem does not need a different study; can use same study.</li> <li>Indicative content: <ul> <li>Studies may be unethical.</li> <li>Studies may lack ecological validity.</li> <li>Machinery can be expensive.</li> <li>Machinery can be inaccurate.</li> <li>Causes participants to be aware they are in a study and therefore demand characteristics.</li> <li>Often just creates quantitative data which lacks detail/explanation</li> </ul> </li> <li>Or any other relevant problem.</li> </ul>	e creates	9
	Marks per point up to a MAXIMUM of three points.		
	No answer or incorrect answer.	0	
	Identification of problem.	1	
	Description of problem related to physiological processes  OR a weak description of a problem related to physiological processes and applied to a study.	2	
	Description of problem related to physiological processes and applied to the study effectively.	3	
	Max mark	9	
4(a)	Outline what is meant by the 'situational explanation of behaviour' in psychology.  1 mark partial 2 marks full.  Situational explanation of behaviour is where behaviour is explained because of the situation we are in – 1 mark. This is where our behaviour is explained in terms of the situation we are in. For example, we might be aggressive because we were raised in an aggressive home – 2 marks.  Explanations are based on factors which are external to the individual such as other people, the setting or the place and not due to our biology or genetic make-up.  Can give up to 1 mark for an example on its own.		2

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Question	Answer	Marks
Using the studies from the list below, answer the questions which follow:		
• •	pedience) lks and Zimbardo (prison simulation) al. (subway Samaritans)	
4(b)	Describe how the data were collected in each of these studies	9

Indicative content: Most likely answers (any appropriate answer receives credit):

**Milgram**: How far up the shock generator was recorded, participants were video taped and their behaviour and comments were recorded (e.g. seizure, sweating, etc.). Participants were given a 14 point scale to rate how painful the shocks were at the end of the study.

Need to mention how far up the shock generator (or how many stopped before 450 volts) to achieve 3 marks.

Haney, Banks and Zimbardo: Participants were observed and video/audio taped. Daily self-report data was completed. A debrief was done at the end where participants had the chance to comment on the student.

Need more than one data collection method to achieve 3 marks.

Piliavin et al.: The observers sat in the adjacent area of the subway and recorded quantitative data – gender and race of the helper, number of people on subway, time taken to help, etc. They also recorded comments made by the passengers during the study.

Need to mention about the observers recording the data about helpfulness for 3 marks.

For each study	
No answer or incorrect answer.	0
Identification of point relevant to question but not related to study or comment from study but no point about data collection from the study.  The description may be very brief or muddled.	1
Description of point about data collection from the study. (Comment with lack of understanding). A clear description that may lack some detail.	2
As above but with analysis (comment with comprehension) about data collection from the study.  A clear description that is in sufficient detail.	3
Max mark	

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Question	Answer		Marks
4(c)	What are the advantages for psychologists when they investigate the effects of situations on behaviour?		9
	Emphasis on advantage. Answers supported with named (or other) stude Each advantage does not need a different study; can use same study.	dies.	
	<ul> <li>Indicative content:</li> <li>Usefulness of research as we can alter situations.</li> <li>The studies often have good ecological validity as the situations are realistic to the participants.</li> <li>Can be ethical if the participants are aware they are in a study if the situation is very unrealistic or in a lab.</li> <li>Can raise the status of psychology if identifies problems in situation how to resolve them.</li> <li>Can be easy to get a varied sample if just going out into an everydate environment and observing participants.</li> <li>Offers an explanation of behaviour</li> </ul> Any other appropriate advantage.	e ns and	
	Marks per point up to a MAXIMUM of three points.		
	No answer or incorrect answer.	0	
	Identification of advantage.	1	
	Description of advantage related to investigating the effects of situations <b>OR</b> a weak description of an advantage related to investigating the effects of situations and applied to a study.	2	
	Description of advantage related to investigating the effects of situations and applied to the study effectively.	3	
	Max mark	9	

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