

Cambridge Assessment International Education

Cambridge International Advanced Subsidiary and Advanced Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

PSYCHOLOGY
Paper 2 Research Methods

9990/21

October/November 2019

1 hour 30 minutes

Candidates answer on the Question Paper.

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your centre number, candidate number and name in the spaces at the top of this page.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

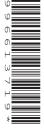
Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.



Section A

Answer all questions in this section.

1		ypothesis in a study about ways to reduce phobias states 'Positive reinforcement will reduble reactions more than imagery exposure'.	uce
	(a)	Is this a directional (one-tailed) hypothesis or a non-directional (two-tailed) hypothesis?	
		Include a reason for your answer.	
			[1]
	(b)	Write a null hypothesis for this study.	
			[1]
	(c)	Suggest one quantitative measure of phobic reactions.	
			[1]
	(d)	Suggest one problem with the measure of phobic reactions you suggested in part (c).	

2	Sta	ndardisation was important in the study by Dement and Kleitman (sleep and dreams):	
	(a)	State what is meant by 'standardisation'.	
	(b)	Identify three ways in which the laboratory environment was standardised in this study.	
		1	
		2	
		3	
			[3]
3	Stat	te one advantage of using the standard deviation compared to the range as a measure ead.	
4	In th	ne study by Yamamoto et al. (chimpanzee helping), the chimpanzees were housed socially.	
	Ехр	lain why this housing was important in terms of the ethical treatment of animals.	
			· • • • •
			[2]

5

amo	rent ways. One of these was a volunteer sample.
(a)	Explain what is meant by a 'volunteer sample', using this study as an example.
(b)	State one advantage and one disadvantage of volunteer sampling.
	advantage
	disadvantage
Des	cribe inter-rater reliability and test-retest reliability, using any examples.
Des 	
Des	
Des	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.
	cribe inter-rater reliability and test-retest reliability, using any examples.

Section B

Answer all questions in this section.

1	•	ya is planning a semi-structured interview to find out whether people sleep better in the wintener summer.
	(a)	State what is meant by a 'semi-structured interview'.
		[1
	(b)	Suggest one open question that Freya could ask.
		[1
	(c)	Explain one advantage of using a semi-structured interview in Freya's study.

		•)	
8	eat eati to ra hun	faster will be more hungry two hours later. ing their lunch. They are unaware that they ate their hunger on a scale of 1 to 10 (1 =	nt eating and hunger. He thinks that students the observes how much time some students spare being observed. Two hours later, he asks the not hungry, 10 = very hungry). He correlates nt eating lunch. He finds there is a strong negative.	end hem how
	(a)	Claude wants to present the data from his	study on the graph, shown in Fig. 8.1.	
		(i) Label the x-axis and y-axis on the gra	aph in Fig. 8.1.	[2]
		(ii) Draw a line to show Claude's correlation	ion on the graph in Fig. 8.1.	[1]
		y-axis label	x-axis label	
		Fig.	8.1	
	(b)	Explain whether Claude can conclude that	t eating faster makes people feel hungry.	

(c)	(i)	Suggest one ethical strength of Claude's study.
		[2]
	(ii)	Suggest one ethical weakness of Claude's study.
		[2]
(d)		ude's friend says that asking students to rate their hunger two hours after lunch may not ralid because some people may be in more interesting lessons than others.
	Ехр	lain why Claude's friend could be correct.
		[2]

		conducted an experiment on memory. Each participant played a memory game twi stracting noise and then without the noise.	ce, first
(a)	Stat	e the control condition in Jia's study.	
(b)	The	participants had never played the game before.	
	Ехр	lain why this was important.	
			[2]
(c)	The	experimental design of Jia's study was repeated measures.	
	(i)	Suggest one advantage of using this experimental design in Jia's study.	
			[2]
	(ii)	Suggest why order effects could have been a problem in Jia's study.	
			[2]
((iii)	Suggest one way that Jia could have overcome the order effects in his study.	
			[2]

Section C

Answer all questions in this section.

a)	Describe how Pihu could conduct a structured observation to investigate the children's

	[10]
/I \	Identify one practical weakness/limitation with the procedure you have described in your
(b)	answer to part (a) and suggest how your study might be done differently to overcome the problem.
(b)	answer to part (a) and suggest how your study might be done differently to overcome the
(b)	answer to part (a) and suggest how your study might be done differently to overcome the problem.
(b)	answer to part (a) and suggest how your study might be done differently to overcome the problem.
(a)	answer to part (a) and suggest how your study might be done differently to overcome the problem.
(a)	answer to part (a) and suggest how your study might be done differently to overcome the problem.
(b)	answer to part (a) and suggest how your study might be done differently to overcome the problem.
(b)	answer to part (a) and suggest how your study might be done differently to overcome the problem.
(b)	answer to part (a) and suggest how your study might be done differently to overcome the problem.

BLANK PAGE

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

Cambridge Assessment International Education is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which itself is a department of the University of Cambridge.