

Cambridge International AS & A Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

175540827

PSYCHOLOGY 9990/22

Paper 2 Research Methods

February/March 2021

1 hour 30 minutes

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Answer all questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do not write on any bar codes.

INFORMATION

- The total mark for this paper is 60.
- The number of marks for each question or part question is shown in brackets [].

This document has 12 pages. Any blank pages are indicated.

Section A

Answer all questions in this section.

1	(a)	Outline what is meant by a "questionnaire".
		[2]
	(b)	Explain one advantage of using a questionnaire rather than an interview in research.
		[2]
2		line what is meant by an 'aim'. Include an example from one core study from the cognitive roach in your answer.
		[2]

3

4

	Explain what is meant by 'volunteer sampling', using this study as an example.
	[2]
(b)	Suggest two ways that Milgram could have obtained a volunteer sample with a wider variety of participants.
	1
	2
	[4]
المصا	and the bar Dilinaria at all (subcons Comparitors) montining at an include any office to date
resu	ne study by Piliavin et al. (subway Samaritans), participant variables may have affected the ılts.
	lain what is meant by 'participant variables', using this study as an example.
Fxn	
Ехр	iam what is meant by participant variables, using this study as an example.
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Exp	ian what is meant by participant variables , using this study as an example.
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Dement and Kleitman (sleep and dreams) used a sample of volunteers.
Suggest why this sample may not have been representative of sleep and dreams in the general population.
[2]
Describe the ethical guidelines of 'numbers' and 'replacement' in relation to animals, using any examples.
[6]

Section B

Answer all questions in this section.

7	wer obs	e fas	s a bird feeder in her garden. When she moved the bird feeder, some species of bird ster to find it than others. Uma has moved the feeder a second time and is conducting an tional study to investigate which bird species are faster to learn the new location of the ler.
	(a)	Uma	a is going to use a structured observation.
		Sug	gest how she could record her data.
			[3]
	(b)	Uma	a cannot decide how many different bird species to observe.
		(i)	Suggest one reason why it would be better to record a small number of different species.
			[2]
		(ii)	Suggest one reason why it would be better to record a large number of different species.

	Dr Malt is testing whether a new drug to improve attention in mental health patients is better than an old drug. In her experiment, she is measuring the patients' attention to a stimulus.		
(a)	Exp	olain what is meant by an 'independent variable', using Dr Malt's study as an example.	
		[2]	
(b)	(i)	Suggest how Dr Malt could operationalise her dependent variable.	
		[1]	
	(ii)	Explain one advantage of operationalising the dependent variable in this way.	
		[2]	

(c)		Malt decides she must use deception. She tells the participants in both the 'new cup' and the 'old drug group' that they are receiving the new drug.	drug
	(i)	Suggest one reason why it is important for Dr Malt to deceive her participants.	
			[2]
	(ii)	Suggest one reason why it is an ethical problem that Dr Malt is deceiving her participa	nts.
			[1]
	(iii)	Suggest how Dr Malt could reduce the problem you have identified in part (c)(ii).	
			[4]

- **9** Zhu is conducting a correlational study in a factory to investigate the relationship between two variables:
 - the number of hours an employee works
 - how happy that employee is.

(a)	Suggest one way that Zhu could record the number of hours an employee works.
	[2
(b)	Suggest one way that Zhu could record how happy each employee is.
	[2
	·
(c)	For her sample, Zhu is looking for a factory where there is a variety of jobs for the employees
(c)	For her sample, Zhu is looking for a factory where there is a variety of jobs for the employees Suggest two reasons why this is important.
(c)	
(c)	Suggest two reasons why this is important.
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Section C

Answer all questions in this section.

10	wea	ithinks that adults wearing brightly coloured clothing are more helpful to children than adults uring clothing that is not brightly coloured. She is planning a field experiment to investigate ch adults are more likely to return a ball to children who have kicked it out of reach.
	(a)	Describe how Cari could conduct a field experiment to investigate whether adults who wear brightly coloured clothing are more helpful than those who do not.

[40]
[10]
Identify one practical weakness/limitation with the procedure you have described in your answer to part (a) and suggest how your study might be done differently to overcome the problem.
Do not refer to ethics or sampling in your answer.

(b)

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