

Cambridge International AS & A Level

PSYCHOLOGY

Paper 4 Specialist Options: Application and Research Methods

9990/43

May/June 2024

1 hour 30 minutes



You must answer on the enclosed answer booklet.

You will need: Answer booklet (enclosed)

INSTRUCTIONS

- Answer **five** questions in total:
 - Answer questions from **two** options. Section A: answer **four** questions. Section B: answer **one** question.
- Follow the instructions on the front cover of the answer booklet. If you need additional answer paper, ask the invigilator for a continuation booklet.

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 8 pages. Any blank pages are indicated.

Section A

Answer questions from two options in this section.

Clinical Psychology

Answer **all** questions if you have studied this option.

- 1 The key study by Freeman et al. (2003), using virtual reality to investigate persecutory ideation, included a number of self-reports such as the VR-Paranoia questionnaire.
 - (a) (i) Give two examples of items (questions) included in the VR-Paranoia questionnaire. [2]
 - (ii) State two features of the scale used by participants to answer the VR-Paranoia questions. [2]
 - (b) Suggest one weakness of the type of data gathered by the VR-Paranoia questionnaire. [2]
 - (c) Explain two strengths of using virtual reality to treat schizophrenia. [4]
- 2 Covert sensitisation is a treatment for impulse control disorders.
 - (a) Outline how one study used covert sensitisation to treat a participant (e.g. Glover, 1985). [2]
 - (b) Suggest how the effectiveness of covert sensitisation could be measured using an online questionnaire. [2]
 - (c) Explain two strengths of psychological treatments, such as covert sensitisation, for kleptomania. [4]

Consumer Psychology

Answer **all** questions if you have studied this option.

3 From the key study by Becker et al. (2011) on food package design:

	(a)	Describe two of the dependent measures (variables) used in this study.	[4]
	(b)	Suggest why 'sensitivity to the design' was controlled by Becker et al.	[2]
	(c)	Explain two weaknesses of using a seven-point scale to measure food package design.	[4]
4	(a)	Outline one type of store interior design.	[2]
	(b)	Suggest how store interior design can be investigated, other than by using virtual st layouts.	tore [2]
	(c)	Explain two weaknesses of using virtual store layouts to study store interior design.	[4]

Answer **all** questions if you have studied this option.

- **5** In the key study by Bridge et al. (1988), the 'profile of mood states' questionnaire was used to assess the effectiveness of their relaxation and imagery treatment programme on stress.
 - (a) (i) Explain why the study by Bridge et al. is longitudinal. [2]
 - (ii) Compare the results for total mood disturbance for any **two** groups. [2]
 - (b) Suggest how the results of total mood disturbance could be presented in a graph. [2]
 - (c) Explain two strengths of using a longitudinal study to assess the effectiveness of relaxation and imagery on stress. [4]
- 6 (a) Explain what is meant by an 'objective measure of adherence', in relation to medical advice. Include a biological measure as an example. [2]
 - (b) Suggest how adherence can be measured objectively, other than using a biological measure.
 - (c) Explain two weaknesses of using biological measures of adherence to medical advice. [4]

Organisational Psychology

Answer **all** questions if you have studied this option.

- 7 From the key study by Cuadrado et al. (2008) on women's access to managerial positions:
 - (a) (i) State the two independent variables in this experiment. [2]
 - (ii) Outline **one** dependent variable in this experiment. [2]
 - (b) Suggest **one** method that could be used to study women's access to managerial positions, other than a laboratory experiment. [2]
 - (c) Explain two weaknesses of conducting a laboratory experiment to measure women's access to managerial positions. [4]
- 8 (a) Explain what is meant by the term 'workplace sabotage'. [2]
 - (b) Suggest one open question that workers could be asked about reasons for sabotage. [2]
 - (c) Explain two weaknesses of collecting data about workplace sabotage from workers using an interview. [4]

[2]

Section B

Answer **one** question from this section.

Clinical Psychology

- **9** There can be problems with using electro-convulsive therapy (ECT) as a treatment for schizophrenia, for example side effects.
 - (a) Plan an experiment with a longitudinal design to investigate whether there are problems with ECT as a treatment for schizophrenia.

Your plan must include details about:

- controls
 a directional or non-directional hypothesis.
- (b) For **one** piece of psychological knowledge on which your plan is based:
 - (i) Describe this psychological knowledge. [4]

[10]

- (ii) Explain how you used **two** features of this psychological knowledge to plan your experiment. [4]
- (c) (i) Explain one reason for your choice of controls. [2]
 - (ii) Explain **one** weakness of the use of a longitudinal design in your study. [2]
 - (iii) Explain one reason for your choice of directional or non-directional hypothesis. [2]

Consumer Psychology

- **10** Shoppers' liking of a store exterior and intention to shop at that store can be influenced by window displays.
 - (a) Plan an interview to investigate the effectiveness of different window displays on intention to shop.

Your plan must include details about:

	•	interview format interview technique.	[10]
)	For	one piece of psychological knowledge on which your plan is based:	
	(i)	Describe this psychological knowledge.	[4]
	(ii)	Explain how you used two features of this psychological knowledge to plan your st	udy. [4]
)	(i)	Explain one reason for your choice of interview format.	[2]

- (ii) Explain **one** weakness of your choice of interview format. [2]
- (iii) Explain one reason for your choice of interview technique. [2]

(b)

(C)

Health Psychology

11	(a)		n a study using a postal questionnaire to investigate the reasons why people at ttend appointments with a medical practitioner.	ttend or fail
		You •	r plan must include details about: question format sampling technique.	[10]
	(b)	For	one piece of psychological knowledge on which your plan is based:	
		(i)	Describe this psychological knowledge.	[4]
		(ii)	Explain how you used two features of this psychological knowledge to plan	your study. [4]
	(c)	(i)	Explain one reason for your choice of question format.	[2]
		(ii)	Explain one weakness with conducting postal questionnaires in your study.	[2]
		(iii)	Explain one reason for your choice of sampling technique.	[2]
			Organisational Psychology	
12	Wo	rkers	Organisational Psychology in assembly-line industries can sabotage machinery.	
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12		Pla sab	in assembly-line industries can sabotage machinery.	non way to [10]
12	(a)	Pla sab You •	in assembly-line industries can sabotage machinery. In a study using a structured observation to investigate which is the most commotage machinery in assembly-line workers. It plan must include details about: behavioural categories	
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[2]

[2]

(ii) Explain **one** weakness of your choice of behavioural categories.

(iii) Explain **one** reason for your choice of steps for making the study reliable.

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