

Cambridge International AS & A Level

PSYCHOLOGY 9990/42

Paper 4 Specialist Options: Application and Research Methods

October/November 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.

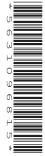
Section A: answer **four** questions.

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.

DC (KS) 337166/1 © UCLES 2024

[Turn over

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 Chapman and DeLapp (2013) treated an individual with a blood/injection/injury phobia using an exposure hierarchy with applied tension:
 - (a) (i) Explain what is meant by the term 'exposure hierarchy'. [2]
 - (ii) Give **two** examples of situations included in the exposure hierarchy in this study. [2]
 - (b) Suggest how blood/injection/injury phobia could be diagnosed without using rating scales. Your suggestion **must** be ethical. [2]
 - (c) Explain **one** strength and **one** weakness of the case study research method as used in this study. [4]
- 2 Depression can be measured using the Beck depression inventory (BDI).
 - (a) Outline how a person's level of depression is interpreted using the BDI. [2]
 - **(b)** Suggest **one** way that depression could be measured, other than by the BDI. [2]
 - (c) Explain two weaknesses of the BDI. [4]

Consumer Psychology

Answer all questions if you have studied this option.

- **3** From the key study by Robson et al. (2011) on consumers' responses to table spacing:
 - (a) Describe the **two** parts of the online questionnaire used in this study.
 - (b) Suggest how an observation could be used to gather data on consumers' responses to table spacing. [2]

[4]

- (c) Explain two weaknesses of using online questionnaires to assess personal space in restaurants. [4]
- **4** EEG (electroencephalogram) as a technique has been used to investigate how people respond to advertising media, e.g. Ciceri et al. (2020).
 - (a) Outline how an EEG can be used to investigate how people respond to advertising media. [2]
 - (b) Suggest **one** way to investigate how people respond to advertising media, other than by using an EEG. [2]
 - (c) Explain **one** strength and **one** weakness of studying how people respond to advertising media using an EEG. [4]

Health Psychology

Answer all questions if you have studied this option.

5	The key study by Shoshani and Steinmetz (2014) on using positive psychology in schools questionnaires to gather data. These included the Rosenberg Self-Esteem Scale (RSE) at General Self-Efficacy Scale, both of which used four-point scales.				
	(a)	(i)	Outline the Rosenberg Self-Esteem Scale (RSE).	[2]	
		(ii)	Outline the General Self-Efficacy Scale.	[2]	
	(b)	_	ggest one health promotion strategy that could be used to promote mental hea ools, other than the strategy referred to in this study.	ilth in [2]	
	(c)	Exp	plain one strength and one weakness of using four-point scales in this study.	[4]	
6	(a)		plain what is meant by a clinical interview. not refer to observing patients' behaviour in your answer.	[2]	
(b) Suggest how observing the pain behaviour of a patient can help assess their level during a clinical interview.			f pain [2]		
	(c)	Exp	plain two weaknesses of using a clinical interview to measure pain.	[4]	
			Organisational Psychology		
			Answer all questions if you have studied this option.		
7	The key study by Giacalone and Rosenfeld (1987) on sabotage in the workplace divided worl into two groups:			orkers	
	(a)	(i)	Explain how the sample of participants were divided into these two groups.	[2]	
		(ii)	State one difference between the results of the Sabotage Methods Questionnai these two groups of participants.	re for [2]	
	(b) Suggest one way that the reliability of the Sabotage Methods Questionnaire could be			ested. [2]	
	(c)	(c) Explain two weaknesses of using a volunteer sample of workers to answer questionnaire about sabotage.			

- 8 Studies have been conducted on open plan offices, e.g. Oldham and Brass (1979).
 - (a) Explain what is meant by an 'open plan office'. [2]
 - (b) Suggest why workers' levels of concentration may be affected by an open plan office design. [2]
 - (c) Explain **two** reasons why generalisations **cannot** be made about the effect on workers of open plan office design from a single study. [4]

Section B

Answer **one** question from this section.

Clinical Psychology

9 (a) Plan a study using a questionnaire with open questions to investigate generalised anxiety disorder in university students.

Your plan must include details about:

- question interpretation/scoring
- the questionnaire 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 the way you chose to interpret/score responses to your questions. [2]
 - (ii) Explain **one** weakness of the way you chose to interpret/score responses to your questions. [2]
 - (iii) Explain one reason for your choice of questionnaire technique.

[2]

Consumer Psychology

10 (a) Plan a study using a postal questionnaire to investigate the 'explorer' type of spatial behaviour pattern of shoppers.

Your plan must include details about:

- sampling technique
- type(s) of data.

[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 sampling technique.

[2]

(ii) Explain **one** weakness of your choice of sampling technique.

[2]

(iii) Explain **one** reason for your choice of type(s) of data.

[2]

Health Psychology

- 11 Some children participated in a healthy eating programme when at school to encourage them to eat more vegetables.
 - (a) Plan a study using a telephone interview of these children, once they are adults, to investigate whether their participation in this healthy eating programme resulted in eating more vegetables as adults.

Your plan must include details about:

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

Organisational Psychology

- **12** Shiftwork can be divided into two types: slow rotation and rapid rotation.
 - (a) Plan an experiment to investigate which type of rotation has the **most** negative effect on the health of workers.

Your plan must include details about:

- controls
- dependent variable. [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 experiment. [4]
- (c) (i) Explain **one** reason for your choice of controls. [2]
 - (ii) Explain **one** weakness of your choice of controls. [2]
 - (iii) Explain **one** reason for your choice of dependent variable. [2]

BLANK PAGE

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 Cambridge Assessment. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which is a department of the University of Cambridge.