

Psychology

2023 examination

Section 1: Short-answer questions (Questions 1 to 7) 70 marks

Answer **all** questions in Section 1

Answers may be in note form

Allow approximately 85 minutes

Section 2: Extended-response questions (Questions 8 to 10) 30 marks

Answer **all** questions in Section 2

Credit will be given for clear, well-expressed answers that are well organised and relevant to the questions

Allow approximately 45 minutes

Approved calculators may be used

Total time: 130 minutes

Total marks: 100

Source

A team of researchers randomly recruited 50 active social media users for a study. The researchers observed the behaviour of the participants on social media for a period of one week.

The results of this research demonstrated that, when online, participants were more likely to engage in rude and aggressive behaviour, use offensive language, and openly express their opinions. The participants also tended to share personal information more frequently online than they would in person.

Question 1 (a) to (c)

Refer to the source when answering Question 1.

- (a) Using your knowledge of psychology, explain how the participants' behaviour on social media might validate their self-concept.

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(2 marks)

- (b) Identify **one** ethical concern related to social media use.

[illegible]

(2 marks)

- (c) Describe **one** advantage of using an observational research design for this study.

[illegible]

(2 marks)

Source

A local high school has introduced a new mobile phone policy. This policy requires students to turn off their phones and leave them in school storage when they arrive at school. Some students are not following the mobile phone policy, and do not hand in their phones.

Question 2 (a) to (d)

Refer to the source when answering Question 2.

- (a) Using your knowledge of obedience, explain **one** reason why some students may **not** be following the mobile phone policy.

ABC ✓	B <i>I</i> <u>U</u> $\times^2$ $\times_2$			

(2 marks)

- (b) Describe how **either** the central **or** the peripheral processing route of persuasion could be used to change the attitude of these students.

ABC ✓	B <i>I</i> <u>U</u> $\times^2$ $\times_2$			

(4 marks)

- (c) Even though some students say that they have a positive attitude towards not using their phones at school, they still don't hand them in.

Describe how situational pressures and self-monitoring could affect the attitude-behaviour link.

ABC ✓	B <i>I</i> <u>U</u> $\times^2$ $\times_2$			

(4 marks)

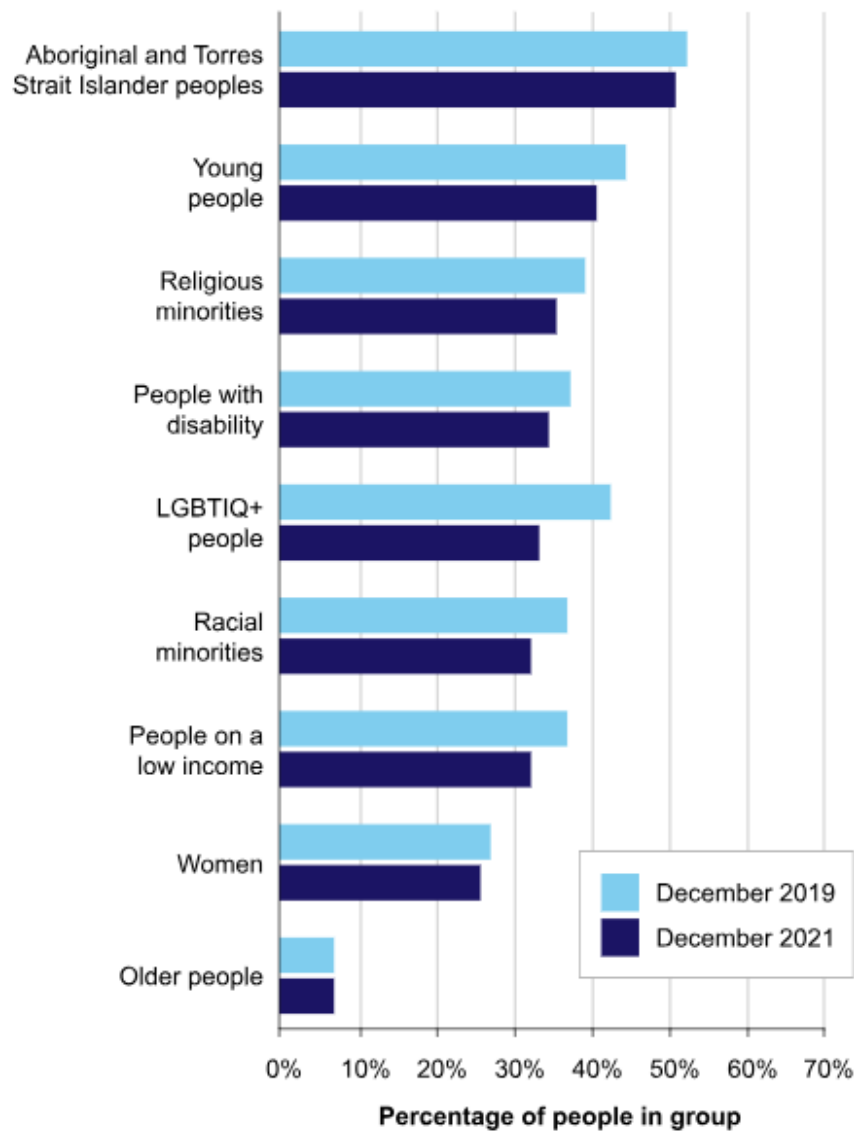
- (d) Explain how behaviour modification could be used to encourage more students to follow the mobile phone policy.

ABC ✓	B <i>I</i> <u>U</u> $\times^2$ $\times_2$			

(4 marks)

Source

Prejudice and discrimination are still widely experienced in Australia. The graph below presents data on instances of major discrimination experienced over a two-year period, as reported by various groups in Australia.



Source: adapted from Faulkner, N, Zhao, K, Borg, K, & Smith, L 2022, *The Inclusive Australia Social Inclusion Index: 2022 Report*, Monash University, Australia, viewed 15 May 2023, <https://inclusive-australia.s3.amazonaws.com>

(d) Describe **two** possible strategies for reducing prejudice towards the groups of Australians in the source.

(i) Strategy 1

(2 marks)

(ii) Strategy 2

(2 marks)

Source

Dante is a conscientious student, who believes that studying hard is vital for success later in life. He prides himself on studying hard and he always tries his best.

His friends in his Psychology class do not share this positive attitude towards studying. This leads to Dante conforming by also not studying during class time.

Question 4 (a) and (b)

Refer to the source when answering Question 4.

(a) Explain how using identification could impact Dante's study habits and grades.

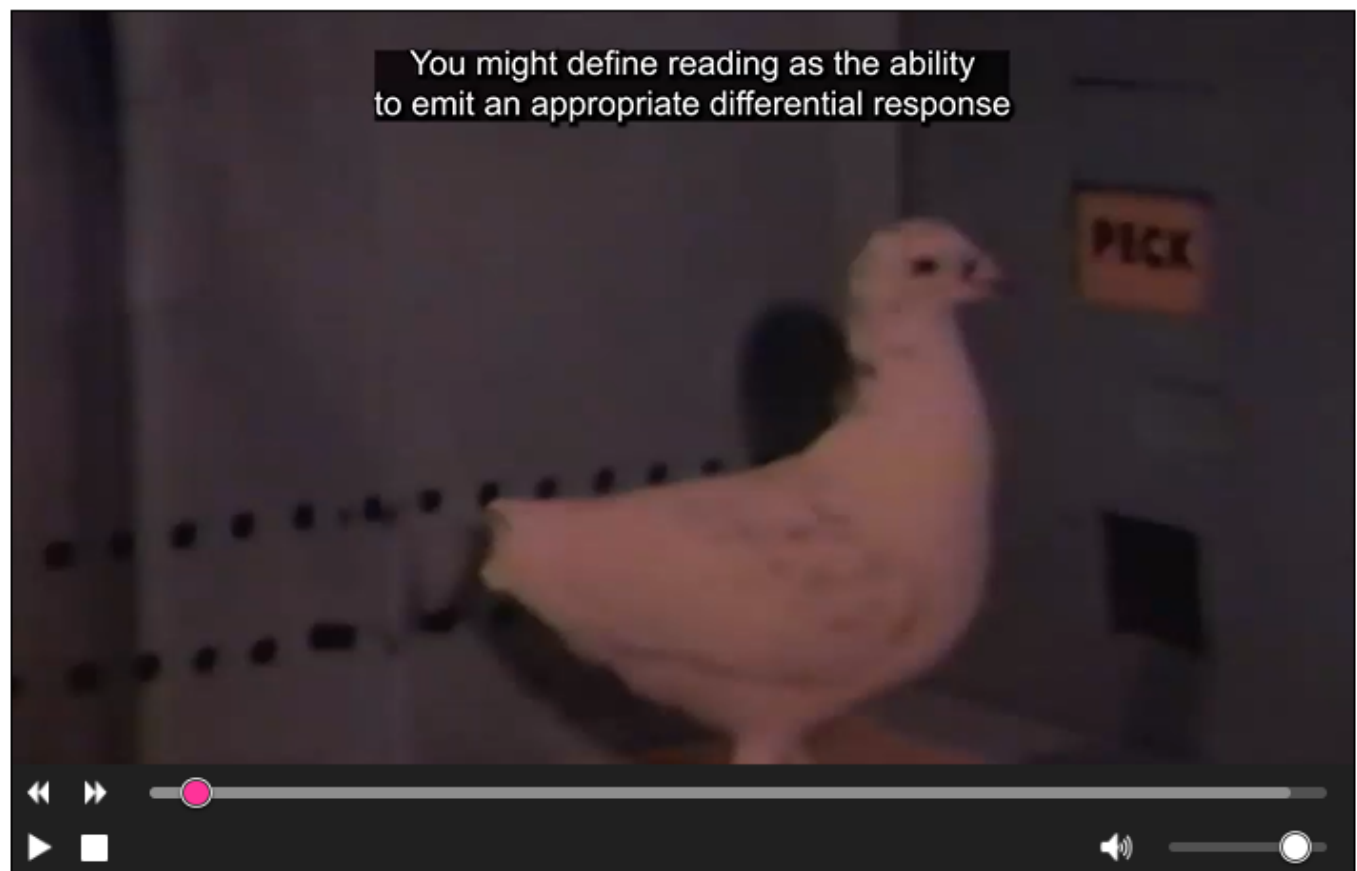
(2 marks)

(b) Evaluate whether using compliance **or** internalisation would be more beneficial for Dante's study habits and grades.

(4 marks)

Video

The video excerpt below discusses an experiment in training pigeons that was conducted in American psychologist BF Skinner's laboratory.



Source: excerpt from B. F. Skinner Foundation Video Archive, 2017, 'Reading Pigeon', viewed 22 June 2023, <https://www.youtube.com>, 0:00–0:50, captions added

Question 5 (a) to (b)(ii)

Watch the video before answering Question 5.

(a) Explain the process of conditioning used to train the pigeon.

(4 marks)

(b) Describe **two** different schedules that may have been used to reinforce the behaviour shown in the video.

(i) Schedule 1

(2 marks)

(ii) Schedule 2

(2 marks)

Source

Sophie developed a severe, itchy rash after being bitten by a garden spider. She was not scared of spiders before this incident but she has now developed a phobia of all spiders, and starts to feel itchy whenever she sees one.

Question 6 (a) to (c)

Read the source before answering Question 6.

(a) Sophie's phobia could have been classically conditioned.

(i) Describe how the process of classical conditioning could have led to this phobia.

ABC	B <i>I</i> <u>U</u> $\times^2$ $\times_2$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\leftarrow$ $\rightarrow$

(4 marks)

(ii) If her phobia was classically conditioned, explain the importance of contiguity.

ABC	B <i>I</i> <u>U</u> $\times^2$ $\times_2$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\leftarrow$ $\rightarrow$

(2 marks)

(b) Explain why Sophie's phobia could also be an example of biological preparedness.

ABC	B <i>I</i> <u>U</u> $\times^2$ $\times_2$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\leftarrow$ $\rightarrow$

(2 marks)

(c) Describe how systematic desensitisation could be used to treat Sophie's phobia of spiders.

ABC	B <i>I</i> <u>U</u> $\times^2$ $\times_2$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$	$\leftarrow$ $\rightarrow$

(4 marks)

Source

Scientists have found that mice with depressive tendencies have a stronger negative reaction to stress. They also tend to give up faster than mice without depressive tendencies in stressful situations such as swimming for extended periods of time. These mice are then given new anti-depressant medication, after which they are then re-exposed to the same stressful situations to measure increased resilience and motivation.

Recently, Irish scientist John Cryan took this study further by feeding half of the mice a strain of bacteria known to be beneficial to the gut, *Lactobacillus rhamnosus* (JB-1). Mice with the enhanced gut flora not only showed increased resilience and motivation when swimming for extended periods, but their blood showed fewer stress hormones. They also performed better than their unenhanced peers in memory and learning tests.

With such successful findings in mice, a group of psychologists are now interested in conducting human trials to determine if probiotics containing *Lactobacillus rhamnosus* (JB-1) might produce similar benefits to psychological wellbeing in humans, such as improved mental health, sleep quality, self-esteem, or attention and concentration, as well as reduced stress.

Source: adapted from Enders, G 2018, *Gut: The inside story of our body's most underrated organ*, Greystone Books, Vancouver, pp 126–8.

Question 7 (a) to (c)

Refer to the source when answering Question 7.

- (a) Explain the importance of using a representative sample when conducting the human trials mentioned in the source.

(2 marks)

- (b) Describe **two** factors that should be controlled to minimise the negative impact on the reliability or validity of a study examining the relationship between probiotics and mental wellbeing.

(i) Factor 1

(2 marks)

(ii) Factor 2

(2 marks)

- (c) A key concept of science as a human endeavour is 'Development and Application'.

Explain how the research outlined in the source is an example of this key concept, and how society could benefit from this study.

(4 marks)

Source

Tayen has recently become interested in archery. She repeatedly watched footage of the archers at the recent state championships, carefully observing the techniques of the gold medallist throughout the heats and the final. However, when Tayen went to the archery range, she was unable to hit the target with the same level of accuracy.

Question 8

Refer to the source when answering Question 8.

Using your understanding of observational learning, explain Tayen's inability to fully put into practice what she had learned by watching the gold medallist.

	0 Words

(10 marks)

Introduction

Research shows that a teacher's tone of voice can affect the willingness of students to comply with instructions.

Option 1

Design an **experimental** investigation that examines the effects of the teacher's tone of voice on the willingness of students to comply with instructions.

Option 2

Design a **qualitative** investigation that examines the effects of the teacher's tone of voice on the willingness of students to comply with instructions.

Question 9

Read the Introduction, Option 1, and Option 2 in the left-hand Reference Materials panel.

Choose **one** option to respond to.

Select the option that you are responding to from the following list.

☐ Option 1

☐ Option 2

	0 Words

(10 marks)

A recent study showed that older Australians in aged-care facilities are five times more likely than those living independently to experience mental health issues. 'Physical deterioration and chronic illness, social isolation, loss of independence, and loneliness can make this group more vulnerable to developing depression,' a mental health official stated.

Question 10

Using the biopsychosocial model, discuss factors that could **improve** the wellbeing of older Australians in aged-care facilities.

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↶ ↷

0 Words

(10 marks)

Final checklist

- ☐ I have reviewed my work
- ☐ I understand that by selecting 'Next' I cannot return to the examination

Next