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School code

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School name

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Given name/s

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Family name

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Attach your
barcode ID label here

Book

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of

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books used

External assessment 2021

Question and response book

Psychology

Paper 2

Time allowed

- Perusal time — 10 minutes
- Working time — 90 minutes

General instructions

- Answer all questions in this question and response book.
- Write using black or blue pen.
- QCAA-approved calculator permitted.
- Planning paper will not be marked.

Section 1 (40 marks)

- 5 short response questions





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Section 1

Instructions

- If you need more space for a response, use the additional pages at the back of this book.
 - On the additional pages, write the question number you are responding to.
 - Cancel any incorrect response by ruling a single diagonal line through your work.
 - Write the page number of your alternative/additional response, i.e. See page ...
 - If you do not do this, your original response will be marked.
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QUESTION 1 (7 marks)

This question refers to the investigations by Skinner (1948).

- a) Distinguish between positive and negative reinforcement. Provide an example of a positively reinforced response in Skinner's experiment.

[2 marks]

- b) Describe extinction and spontaneous recovery, using an example of each from Skinner's experiment.

[4 marks]

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c) Contrast the experiment by Skinner (1948) with that conducted by Pavlov (1897, 1902). [1 mark]

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In another study, researchers replicated Asch's methodology. However, half the participants were instructed to state their responses publicly and the other half privately.

- c) Predict the behaviour of participants in the public group. Give a reason for your response. *[2 marks]*

- d) Infer whether the participants in Asch's experiment would have experienced cognitive dissonance. Give a reason for your response. *[2 marks]*

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b) Describe 'culture' and provide an example from the study.

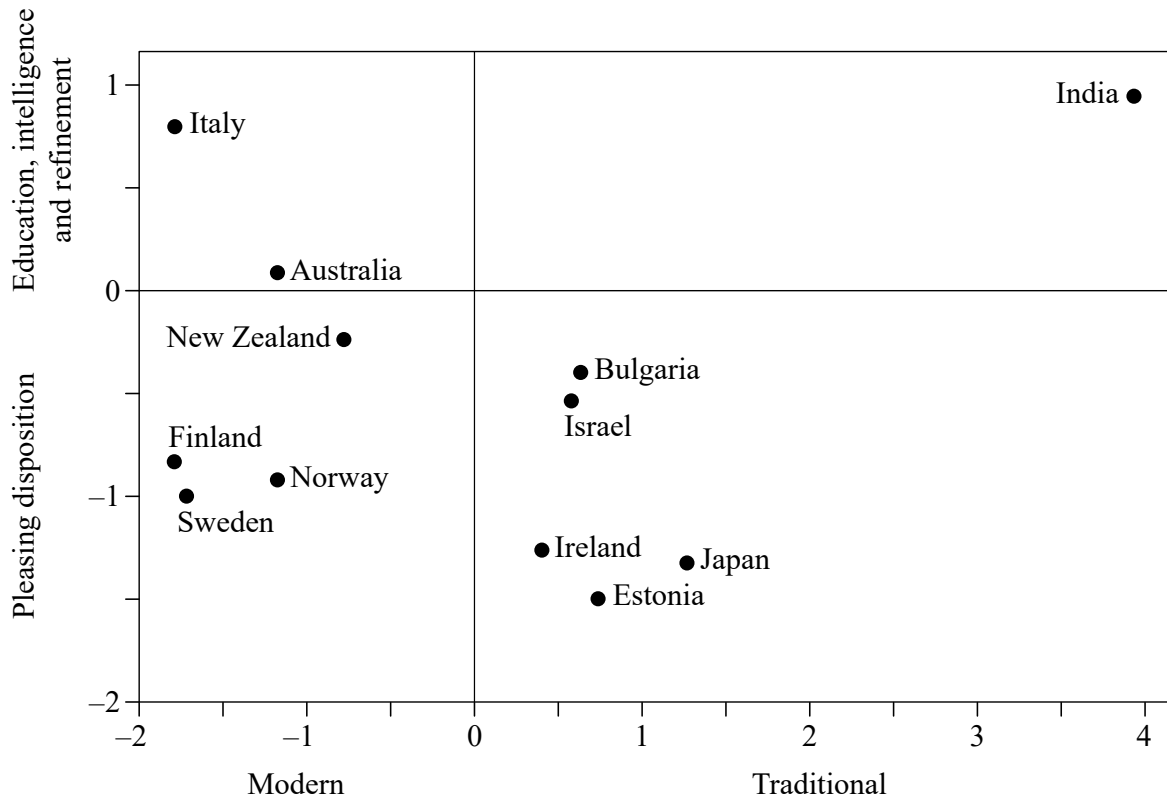
[2 marks]

c) Identify how similarity as an origin of attraction is relevant to the study.

[1 mark]

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- d) The graph displays the locations of each sample in the first two studied dimensions ('modern' versus 'traditional' and 'education, intelligence and refinement' versus 'pleasing disposition'). Identify one piece of evidence that is consistent and one piece of evidence that is inconsistent with similarity as an origin of attraction. [2 marks]



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QUESTION 4 (10 marks)

This question refers to the experiment by Catani, Jones and Ffytche (2005).

Researchers investigated how Broca's area, Wernicke's area and Geschwind's territory are connected. They found evidence for three distinct pathways:

- a direct pathway connecting Broca's and Wernicke's areas
- an indirect pathway connecting Wernicke's area and Geschwind's territory
- an indirect pathway connecting Broca's area and Geschwind's territory.

The research indicated that the direct pathway is responsible for phonologically-based language functions, such as automatic word repetition, and the indirect pathways relate to semantically-based language functions, such as auditory comprehension and vocalisation of semantic content.

a) State the part of the human nervous system in which the brain is located. *[1 mark]*

b) Identify the lobe of the cerebral cortex in which the language centres in the experiment are located. *[3 marks]*

Broca's: _____

Wernicke's: _____

Geschwind's: _____

c) Identify the type of language processing that occurs in Broca's area, Wernicke's area and Geschwind's territory. Support your response with evidence from the experiment. *[6 marks]*

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QUESTION 5 (4 marks)

This question refers to the experiment by Grant et al. (1998).

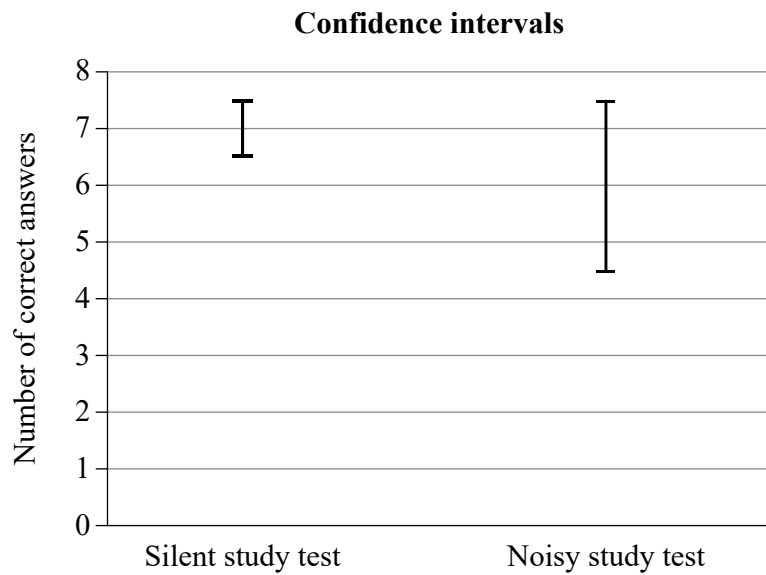
Silent study test	6	7	8	8	8	6	7	7	7	6
Noisy study test	6	6	9	10	4	5	6	4	9	5

- a) Determine the median for the silent study test.

[1 mark]

- b) Draw qualitative and quantitative conclusions from the graph.

[3 marks]



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References

- Asch, SE 1951, 'Effects of group pressure upon the modification and distortion of judgement', in H Guetzkow (ed.), *Groups, Leadership and Men*, Carnegie Press, Pittsburgh, PA.
- Buss, DM, Abbott, M, Angleitner, A et al. 1990, 'International preferences in selecting mates: A study in 37 cultures', *Journal of Cross-Cultural Psychology*, vol. 21, no. 1, pp. 5–47.
- Catani M, Jones DK and Ffytche DH 2005, 'Perisylvian language networks of the human brain', *Annals of Neurology*, vol. 57, pp. 8–16.
- Festinger, L 1957, *A Theory of Cognitive Dissonance*, Stanford University Press, Stanford, CA.
- Grant, HM, Bredahl, LC, Clay, J et al. 1998, 'Context-dependent memory for meaningful material: Information for students', *Applied Cognitive Psychology*, vol. 12, pp. 617–623.
- Pavlov, IP 1897, *The Work of the Digestive Glands*, Griffin, London.
- Skinner, BF 1948, "'Superstition" in the pigeon', *Journal of Experimental Psychology*, vol. 38, pp. 168–172.



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