

Cambridge International AS & A Level

| CANDIDATE NAME | | | | | |
|-------------------|--|--|---------------------|--|--|
| CENTRE NUMBER | | | CANDIDATE NUMBER | | |

465235706

PSYCHOLOGY 9990/21

Paper 2 Research Methods

October/November 2021

1 hour 30 minutes

You must answer on the question paper.

You will need: Ruler

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) | Explain why a questionnaire is a self-report method, including an example from a core study in your answer. |
|---|------|---|
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| | (D) | Explain one strength of using questionnaires in research. |
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| | | |
| | | [2] |
| 2 | Den | nent and Kleitman (sleep and dreams) compared dream duration estimates for 5-minute and |
| | 15-r | minute REM periods. |
| | Writ | te a null hypothesis for this part of the study. |
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| 3 | In th | ne study by Bandura et al. (aggression), inter-rater reliability was measured. | |
|---|-------|--|-----|
| | (a) | Outline what is meant by 'inter-rater reliability'. | |
| | | | |
| | | | [1] |
| | (b) | Describe one part of the procedure that improved inter-rater reliability in this study. | |
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| | | | [3] |

| Oraw a bar chart of these resul | is. Tou must label the axes. | |
|---------------------------------|-------------------------------------|--|
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| Describe laboratory experiments and field experiments, using any examples. |
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| [6] |

Section B

Answer all questions in this section.

| 7 | Bru | ce is planning a case study of a famous woman known worldwide for her helpfulness. |
|---|-----|---|
| | (a) | Explain one strength of the case study research method. |
| | | |
| | | |
| | | |
| | | [2 |
| | (b) | Explain two weaknesses of the case study research method, using Bruce's study as ar example. |
| | | 1 |
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| | | 2 |
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| | | |

- 8 Nola is investigating whether there is a correlation between hours of sleep and how much a person argues. She thinks that people who sleep less may argue more. Her friend Tim is making suggestions about her procedure.
 - (a) Nola and Tim have different ideas for recording participants' hours of sleep per night:
 - Nola plans to ask participants to record this at home.
 - Tim says it would be better to record this in a laboratory.

| | (i) | Suggest one ethical reason why Nola's idea is better than Tim's idea. | |
|-----|-------|---|------|
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| | | | [2] |
| | (ii) | Suggest one practical reason why Nola's idea is better than Tim's idea, other avoiding the need to use a laboratory. | than |
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| | | | [2] |
| | (iii) | Suggest one practical reason why Tim's idea is better than Nola's idea. | |
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| | | | |
| (b) | Nola | a finds the correlation she expected, that people who sleep less argue more. | [-] |
| | Ехр | lain why Nola cannot know whether sleeping less causes people to argue more. | |
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| | | | |
| | | | [2] |

Naomi is designing an observation of helping behaviour at an entrance to a library that has a door

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which is difficult to open. She intends to observe people carrying many books and will record the gender of each person who helps to open the door.

(a) Naomi could either be a participant observer or a non-participant observer.

(i) Suggest one advantage of her being a participant observer.

[2]

(ii) Suggest one advantage of her being a non-participant observer.

[2]

(b) Explain the type of data Naomi is collecting.

| (c) | Situ | ational variables could affect Naomi's results. |
|-----|------|---|
| | (i) | State what is meant by a 'situational variable'. |
| | | |
| | | [1] |
| | (ii) | Suggest how one situational variable could affect Naomi's results. |
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| | | [3] |

Section C

Answer all questions in this section.

| 10 | use | ndan is planning to use a semi-structured interview in a study about road users. He intends to a sample of people who are walking (pedestrians). Brendan will investigate the pedestrians ings, thoughts and actions towards other road users, e.g. other pedestrians, cyclists and drivers |
|----|-----|---|
| | (a) | Describe how Brendan could conduct a study using a semi-structured interview to investigate participants' feelings, thoughts and actions towards other road users. |
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| [10] |
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| [1v] |
| 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. |
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(b)

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