



Oxford Cambridge and RSA

**Friday 19 May 2023 – Afternoon**

**GCSE (9–1) Psychology**

**J203/01 Studies and applications in psychology 1**

**Time allowed: 1 hour 30 minutes**



**You must have:**

- a scientific or graphical calculator



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

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Last name

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**INSTRUCTIONS**

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer **all** the questions.

**INFORMATION**

- The total mark for this paper is **90**.
- The marks for each question are shown in brackets [ ].
- Quality of extended response will be assessed in questions marked with an asterisk (\*).
- This document has **20** pages.

**ADVICE**

- Read each question carefully before you start your answer.

## Section A

## Psychological Problems

- 1 (a) Identify the area of the brain investigated in Daniel, Weinberger, Jones et al.'s (1991) study into the effect of amphetamine on regional cerebral blood flow.

- A hippocampus
- B limbic system
- C pre-frontal cortex
- D temporal lobe

Your answer

[1]

- (b) Identify the scanning technique used in Daniel, Weinberger, Jones et al.'s (1991) study into the effect of amphetamine on regional cerebral blood flow.

- A CAT scan
- B MRI scan
- C PET scan
- D SPECT scan

Your answer

[1]

- (c) Identify which **one** of the following is a conclusion from Daniel, Weinberger, Jones et al.'s (1991) study into the effect of amphetamine on regional cerebral blood flow.

- A amphetamine significantly decreased cortical activity during the sensori-motor task
- B amphetamine significantly decreased cortical activity during the WCST cognitive task
- C amphetamine significantly increased cortical activity in an area of the brain during the sensori-motor task
- D amphetamine significantly increased cortical activity in an area of the brain during the WCST cognitive task

Your answer

[1]

2 Outline **one** criticism of the procedure used in Daniel, Weinberger, Jones et al.'s (1991) study into the effect of amphetamine on regional cerebral blood flow.

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..... [2]

3 Explain **one** way in which the biological theory of schizophrenia can be criticised.

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..... [3]

4 Alex wakes up feeling low most mornings and is not really motivated to do anything. Alex has felt like this for a while and thinks it is related to having lost his job a couple of months ago. It made him feel worthless. Alex could not stop thinking that he had let the family down.

From the source and using the ABC model of depression:

(a) Identify the activating event.

..... [1]

(b) Identify the irrational belief.

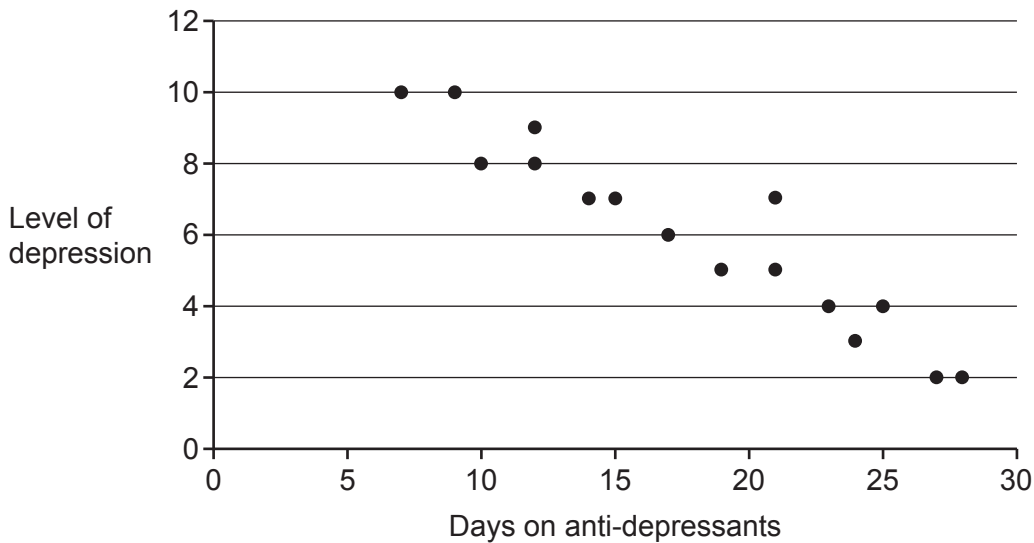
..... [1]

(c) Identify a consequence.

..... [1]

- 5 A psychologist investigated the correlation between how long people had been on anti-depressants and how severe their depression was, where the higher the score, the more depressed they were.

Their results are shown in the graph below.



- (a) Name the type of graph used to display the data.

..... [1]

- (b) Give the **two** co-variables in this investigation.

1 .....

2 .....

[2]

- (c) Using the graph, state the type of correlation shown.

..... [1]

- (d) Using the graph, state what the psychologist would conclude about the correlation between how long people had been on anti-depressants and how severe their depression was.

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..... [1]

6 Explain why a person with an undiagnosed mental health problem may experience stigma **and** discrimination.

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..... [2]

7 Describe the current prevalence of mental health problems.

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## Section B

## Development

8 (a) Identify the first stage of cognitive development according to Piaget's theory.

- A concrete operational
- B formal operational
- C pre-operational
- D sensori-motor

Your answer

[1]

(b) Identify which **one** of the following features of cognitive development is in place before the concrete operational stage according to Piaget.

- A conservation
- B decentration
- C object permanence
- D reversibility

Your answer

[1]

(c) Identify the process children go through to create a new schema according to Piaget.

- A accommodation
- B active learning
- C animism
- D assimilation

Your answer

[1]

9 Describe how the brain develops during adolescence.

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..... [3]

**Turn over for the next question**





11 Three teachers are talking in the staffroom.

Ryan: 'I try to reward my students when I see them trying hard, even though they know a task is difficult.'

Nina: 'I like to encourage my students to try out a variety of methods to solve a problem.'

Jamal: 'I like to recognise my students' talents and help them to develop what they are good at.'

Using the source:

(a) Name the teacher who uses 'praise for effort' in their teaching.

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(b) Name the teacher whose students are most likely to have a fixed mindset.

..... [1]

12 Outline how Piaget's ideas have been applied to education.

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## Section C

## Criminal Psychology

14 (a) Identify which of the following best describes the research method used in Heaven's (1996) study into delinquency.

- A Longitudinal, case study, correlation
- B Longitudinal, questionnaires, correlation
- C Longitudinal, structured interviews, correlation
- D Longitudinal, unstructured interviews, correlation

Your answer

[1]

(b) Identify the reason why Heaven's (1996) study into delinquency lacked construct validity.

- A because it did **not** measure neuroticism
- B because it used closed questions and rating scales
- C because it was a longitudinal study
- D because 20% of participants dropped out of the study

Your answer

[1]

(c) Identify the weakness of the correlational method used in Heaven's (1996) study into delinquency.

- A it **cannot** be used to establish cause and effect
- B it can only be used with a self-report
- C it relies on participants **not** withdrawing from the study
- D participants may give socially desirable answers

Your answer

[1]

15 Draw a line to match each type of crime with the appropriate example. [3]

**Type of Crime**

**Example**

Acquisitive

Charlie has been cautioned for having loud parties that go on into the night.

Anti-social

Layla has been arrested for possession of drugs.

Violent

Tom is under investigation for carrying out online fraud.

Hugo is in custody having been accused of physical assault.

16 Ben has been caught a number of times shoplifting from local businesses. His probation officer is concerned that his community sentences are not enough to stop him re-offending.

Briefly explain how restorative justice could be used to try to stop Ben re-offending.

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17 Describe the neuropsychology involved in neuroticism.

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Section D

Research Methods

You have been asked to carry out a **questionnaire** to investigate how much bullying happens in the workplace. The theory is that people who work in large organisations will experience more bullying than people who work in small organisations.

Use this space to plan your investigation.

19 Outline **one** strength of using a questionnaire in your investigation.

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..... [2]

20 (a) Write an example of an open question that could be used in your investigation.

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..... [1]

(b) Explain whether this question would give you primary or secondary data.

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..... [2]

21 (a) Write an example of a closed question that could be used in your investigation.

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..... [1]

(b) Name a measure of central tendency you could use to analyse responses to this question.

..... [1]

(c) Explain how you would use this measure of central tendency on your data.

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..... [2]

22 (a) Explain how you could obtain a self-selected sample for your investigation.

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(b) Explain how using a self-selected sample could affect the representativeness of your investigation.

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23 Outline **one** way you would deal with an ethical issue that might be raised by your investigation.

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..... [2]

24 Explain how you would check the external reliability of your questionnaire.

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**END OF QUESTION PAPER**

**ADDITIONAL ANSWER SPACE**

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

A large area of lined paper for writing. It features a vertical margin line on the left side and horizontal dotted lines for writing. The lines are evenly spaced and extend across the width of the page.



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