Oxford Cambridge and RSA

Thursday 15 May 2025 – Afternoon

GCSE (9–1) Psychology

J203/02 Studies and applications in psychology 2

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 | | | | | | Candidate number | | | | |

First name(s) _____

Last name _____

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.

© OCR 2025 603/1109/5
DC (WW) 345194/6
OCR is an exempt Charity

Section A

Social Influence

1

(a) Identify the brain region that has a major influence on a person's morality.

A Cerebellum

B Hippocampus

C Hypothalamus

D Pre-frontal cortex

Your answer ☐ **[1]**

(b) Identify the personality type that has a major influence on a person's obedience.

A High authoritarian

B High extraversion

C High neuroticism

D High psychoticism

Your answer ☐ **[1]**

(c) Identify where the NatCen (2011) study into the August riots was conducted.

A England

B New Jersey, USA

C New York, USA

D Russia

Your answer ☐ **[1]**

© OCR 2025

2 Complete the table to show whether the situational factor increases, decreases or has no effect on the social behaviour.

Write **increases** or **decreases** or **has no effect** in the table.

Situational Factor	Social Behaviour	Effect
Larger size of majority	Conformity	.....
Presence of authority figures	Obedience	.....

[2]

3 Using an example, outline what **deindividuation** means.

.....

.....

.....

..... **[2]**

4 Taylor and Alex want to raise awareness of the stigma and discrimination surrounding mental health. They want to do this at the local community centre.

Explain **two** ways in which minority influence could be used to help reduce mental health stigma and discrimination. You must refer to the source in your answer.

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

© OCR 2025

5 Bickman's (1974) study investigated obedience and the social power of a uniform.

(a) Identify **one** feature of the sample in this study.

..... **[1]**

(b) Explain **one** weakness of opportunity sampling as used in Bickman's (1974) study.

.....

.....

.....

..... **[2]**

6 While watching a recording of a riot following an international sports competition, Ali observed the following types of people:

Type **X**: aggressively damages public properties.
Type **Y**: observes what is happening without participating.
Type **Z**: steals food items from shops.

Using the source:

(a) Identify the category of people found in the NatCen (2011) study into the August riots to which Type **X** people would belong.

..... **[1]**

(b) Identify the category of people found in the NatCen (2011) study into the August riots to which Type **Z** people would belong.

..... **[1]**

(c) Explain **one** criticism of using dispositional factors to explain people's participation in riots following an international sports competition.

.....

.....

.....

.....

.....

..... **[3]**

© OCR 2025

(d) Ali found there were 17 Type **X** people, 21 Type **Y** people, and 6 Type **Z** people in total.

Calculate the percentage of Type **X** people found by Ali.
Write your answer to **two** significant figures.
Show your working.

.....

.....

.....

.....

.....

..... **[3]**

(e) Explain **one** strength of quantitative data as gathered by Ali.

.....

.....

.....

..... **[2]**

© OCR 2025

Section B

Sleep and Dreaming

7

(a) Identify which of the following describes sleep onset insomnia.

A Struggle to fall asleep

B Struggle to stay asleep

C Struggle to stay awake

D Struggle to wake up from sleep

Your answer ☐ **[1]**

(b) Identify which of the following describes sleep maintenance insomnia.

A Struggle to fall asleep

B Struggle to stay asleep

C Struggle to stay awake

D Struggle to wake up from sleep

Your answer ☐ **[1]**

(c) Identify the approximate percentage of a sleep cycle that adults spend in REM sleep.

A 20%

B 40%

C 60%

D 80%

Your answer ☐ **[1]**

© OCR 2025

8 Complete the following passage about the Activation Synthesis Theory of Dreaming.

You must choose a different term for each gap from the list below.

bizarre	**cerebral cortex**	**hypothalamus**
midbrain	**ordinary**	**pons**

During REM sleep, intense brain activity driven by signals from the

..... stimulates the limbic system. This random brain

activity prompts dream synthesis in the ..... ,

often resulting in ..... dreams. **[3]**

9 Explain the difference between endogenous pacemakers and exogenous zeitgebers.

.....

.....

.....

..... **[2]**

© OCR 2025

10 Below is a conversation between Ling and Zayn.

Ling: I had an interesting dream yesterday.
Zayn: What was it?
Ling: I was lost in a large, unfamiliar city.
Zayn: Sounds like you wish for a new adventure in life.

Using the source:

(a) State the manifest content of Ling's dreams.

..... **[1]**

(b) State the latent content of Ling's dreams.

..... **[1]**

(c) Explain **one** criticism of using the Freudian Theory of Dreaming to explain Ling's dreams.

.....

.....

.....

.....

.....

..... **[3]**

11 Using an example, explain what **repression** means according to the Freudian Theory of Dreaming.

.....

.....

.....

..... **[2]**

© OCR 2025

12 Explain **two** criticisms of the sample used in Freud's (1918) Wolfman study.

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

13 Sam has insomnia. The doctor recently prescribed sleeping tablets to Sam to help regulate their sleep hormones.

(a) State the hormone Sam's doctor is trying to regulate using sleeping tablets.

..... **[1]**

(b) Suggest **two** things Sam can change about the physical environment to cope with their insomnia.

1 .....

.....

2 .....

.....

[2]

© OCR 2025

14 A researcher found that, in one night, 36 participants had bizarre dreams while 8 participants had non-bizarre dreams.

Calculate the ratio of participants who had bizarre dreams to participants who had non-bizarre dreams.
Express your answer in its **lowest** possible form.
Show your working.

.....

.....

.....

..... **[2]**

© OCR 2025

Section C

Memory

15

(a) Over how many years was Clive Wearing studied by Wilson, Kopelman and Kapur (2008)?

A 2

B 10

C 21

D 45

Your answer ☐ **[1]**

(b) Identify which of the following was **not** used in Wilson, Kopelman and Kapur's (2008) study of Clive Wearing.

A Brain scan

B Independent measures design

C Interview

D Observation

Your answer ☐ **[1]**

(c) Which of the following types of data were collected in Wilson, Kopelman and Kapur's (2008) study of Clive Wearing?

A Primary data

B Qualitative data

C Quantitative data

D All of the above

Your answer ☐ **[1]**

© OCR 2025

16 Draw **one** line from each type of amnesia to its relevant area of neurological damage.

Type of Amnesia	**Area of Neurological Damage**
	Cerebellum damage
Anterograde amnesia	
	Frontal lobe damage
Retrograde amnesia	
	Hippocampus damage

[2]

17 A psychologist is hired by a local restaurant to advertise their new chocolate drink.

Describe **two** techniques, other than autobiographical advertising, the psychologist can suggest to make people remember the chocolate drink advertisement.

1 .....

.....

.....

.....

2 .....

.....

.....

.....

[4]

18 State **two** memory functions measured by the Wechsler Memory Scale.

1 .....

.....

2 .....

.....

[2]

© OCR 2025

19* Use your knowledge and understanding from across the psychology course to explain how far you agree with the following statement:

'Psychological theories provide a holistic understanding of human cognitions and behaviours.'

This relates to the reductionism/holism debate.

In your answer, refer to the Theory of Reconstructive Memory and **at least one** other theory from a different area of psychology you have studied.

[13]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

© OCR 2025

© OCR 2025

BLANK PAGE

DO NOT WRITE ON THIS PAGE

Turn over for the next question

© OCR 2025

Section D

Research Methods

A psychologist investigated if the type of reward received affects learning motivation. The psychologist went to a local school and invited 20 students to a science laboratory to take part in the study.
The students were asked to solve maths problems. 10 of the students received stickers while the other 10 students received verbal praise each time they solved a maths problem successfully. The psychologist recorded the number of maths problems solved as a measure of learning motivation.

20

(a) State the independent variable in this study.

..... **[1]**

(b) State the dependent variable in this study.

..... **[1]**

21 Explain **one** weakness of a laboratory experiment as used in this study.

.....

.....

.....

..... **[2]**

22 The psychologist used an independent measures design in this experiment.
Explain **one** strength of this experimental design as used in this study.

.....

.....

.....

..... **[2]**

23 Identify the type of data the psychologist collected in this study.

Tick **one** box to show your answer.

Primary data ☐

Secondary data ☐

[1]

© OCR 2025

24 State **one** extraneous variable that would need to be controlled in this study **and** explain **why** it would need to be controlled.

.....

.....

.....

.....

.....

..... **[3]**

25 The tally chart shows the number of maths problems solved by students who received verbal praise.

Participant	Number of Maths Problems Solved
1	𝍸 ||
2	𝍸
3	|||
4	||||
5	𝍸 |
6	𝍸 ||||
7	𝍸 𝍸
8	𝍸 |
9	𝍸 |
10	||||

(a) Calculate the mean number of maths problems solved by students who received verbal praise in this study.
Show your working.

.....

.....

.....

..... **[2]**

(b) Calculate the range of the number of maths problems solved by students who received verbal praise in this study.
Show your working.

.....

.....

..... **[2]**

© OCR 2025

26

(a) Explain how the psychologist could have used the random sampling method to obtain participants in this study.

.....

.....

.....

..... **[2]**

(b) Explain **one** strength of using the random sampling method to obtain participants in this study.

.....

.....

.....

..... **[2]**

END OF QUESTION PAPER

© OCR 2025

EXTRA ANSWER SPACE

If you need extra space use these lined pages. You must write the question numbers clearly in the margin.

© OCR 2025

OCR
Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of Cambridge University Press & Assessment, which is itself a department of the University of Cambridge.

© OCR 2025