



Oxford Cambridge and RSA

**Monday 02 November 2020 – 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.

## 2

## Section A

## Development

Answer **all** the questions.

1 (a) Identify which of the following believes that development happens in stages.

- A Dweck's theory
- B Piaget's theory
- C Willingham's theory
- D all three theories

Your answer

[1]

(b) Identify which of the following believes that meaning is important for children's learning.

- A Dweck's theory
- B Piaget's theory
- C Willingham's theory
- D all three theories

Your answer

[1]

(c) Identify which of the following can be applied to education.

- A Dweck's theory
- B Piaget's theory
- C Willingham's theory
- D all three theories

Your answer

[1]

Into the minds of children

- George believes that he is good at some things at school and bad at others and can't do anything to change this.
- Gita believes that she can learn from challenges if she puts in the effort to overcome them.
- Grace believes that she can learn to understand things better but she needs to wait until she is older.

Using the source:

(a) Name the child who shows a fixed mindset.

..... [1]

(b) Name the child who shows a growth mindset.

..... [1]

3 Complete the following passage on Blackwell *et al.*'s (2007) study into fixed and growth mindsets by filling in the gaps.

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

**case    longitudinal    maths**  
**pre-schoolers    questionnaire    science    students**

Study 1 was a ..... study that took place over five years. The sample was made up of ..... . Their motivation was measured using a ..... and scores on this were compared with scores from ..... tests.

[4]

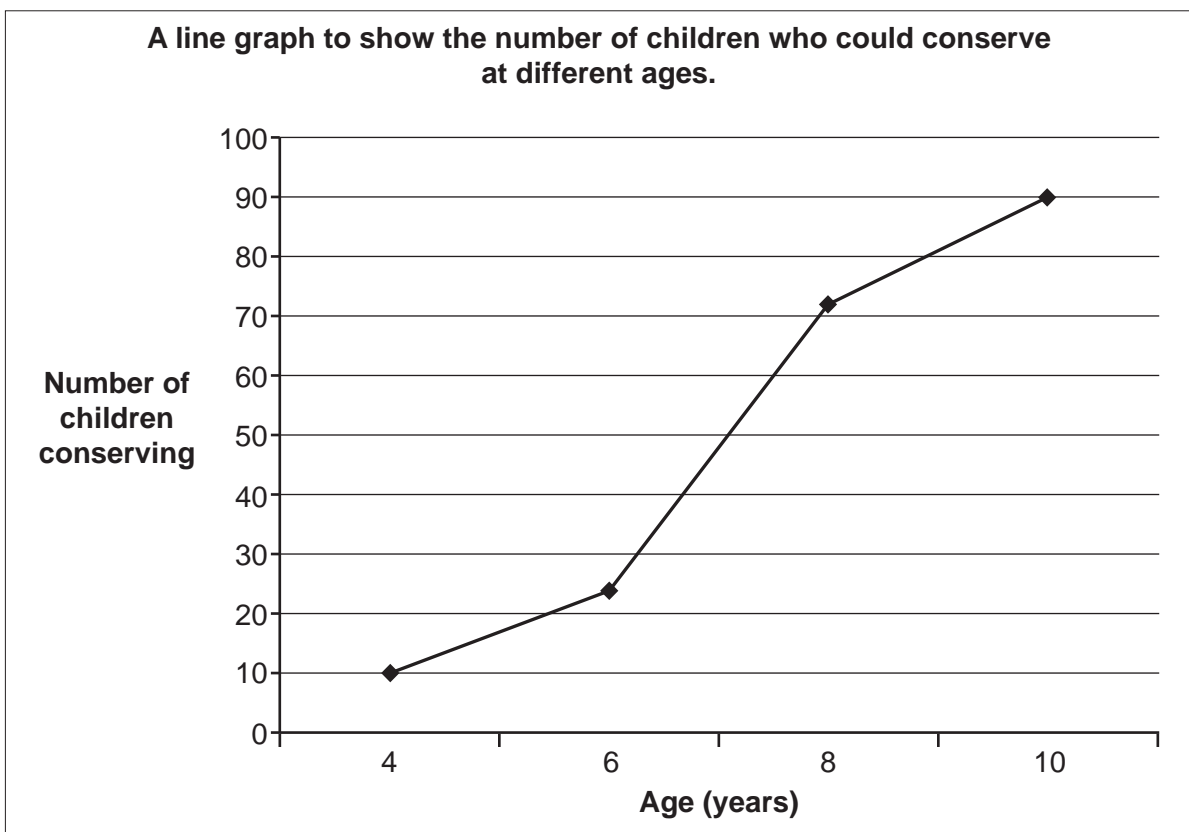
4

4 A psychologist carried out a study to investigate whether children could conserve or not at different ages. Using one of Piaget's conservation tasks, he compared 100 children aged four years, 100 aged six years, 100 aged eight years and 100 aged ten years.

(a) Sketch a tally chart that could be used to collect data for this study.

[2]

(b) The results from the study are shown in the line graph below.



Using the line graph above:

(i) Give the number of children who could conserve at the age of eight years.

..... [1]

(ii) Estimate the number of children the psychologist would expect to conserve at the age of five years.

..... [1]

5

(iii) Give the ratio, in its lowest possible form, for the number of ten-year-olds compared to the number of four-year-olds who could conserve. Show your workings.

..... [2]

(c) In a follow-up study, the psychologist rated 10 of the four-year-olds on how egocentric they were.

His ratings are shown below.

5      7      3      7      8      7      4      9      6      8

Calculate the median rating for this data set. Show your workings.

..... [2]

5 Outline **one** criticism of Piaget's study into the conservation of number.

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

6

6 (a) Estimates suggest that the human brain has 86 000 000 000 neurons.

Express this figure in standard form.

..... [1]

(b) (i) Name **one** stage of brain development.

..... [1]

(ii) Outline what happens to the brain during this stage of development.

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

7

## Section B

## Psychological Problems

Answer **all** the questions.

7 (a) Identify the neurotransmitter associated with schizophrenia.

- A dopamine
- B melatonin
- C noradrenaline
- D serotonin

Your answer 

[1]

(b) Identify the decision-making part of the brain that is affected in people with schizophrenia.

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

Your answer 

[1]

(c) Identify **one** idea that the biological explanation of schizophrenia ignores.

- A determinism
- B experimentation
- C nurture
- D reductionism

Your answer 

[1]

The Case of David

David has recently been diagnosed with a mental health disorder. His wife has become very upset by this. To make matters worse for the family, David's eldest son now thinks that he is living with a 'mad man'.

David has told his workplace about his diagnosis. They have been very supportive in terms of giving him time off but have said that he cannot be considered for a promotion because they are worried that he will not get well enough to do the job in the future.

Using the source:

**(a)** State what is meant by a stigma and give an example.

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

**(b)** State what is meant by discrimination and give an example.

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



Mental health cases

The following individuals all suffer from a mental health disorder:

Dan is suffering from sleep disturbances nearly every day. He is experiencing significant changes in his appetite.

Lucy believes that her thoughts are being controlled by outside forces. She often claims these forces are constantly trying to communicate with her and are very critical of her.

Paul is confined to his home because he is too scared to leave it. He really panics about embarrassing himself in public.

Using the source:

(a) Name the person who is showing symptoms of schizophrenia.

..... [1]

(b) Name the person who is showing symptoms of clinical depression.

..... [1]

(c) Choose **one** of the individuals and briefly explain how psychotherapy may be used to help them.

Individual's name: .....

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



## Section C

## Criminal Psychology

Answer **all** the questions.

12 (a) Identify the process that, according to Social Learning Theory, individuals go through when they find a role model.

- A identification
- B illustration
- C instigation
- D internalisation

Your answer

[1]

(b) Identify the process that, according to Social Learning Theory, individuals go through before imitation.

- A experimentation
- B interpretation
- C interrogation
- D observation

Your answer

[1]

(c) Identify the type of reinforcement that, according to Social Learning Theory, relies on others being rewarded.

- A direct
- B negative
- C positive
- D vicarious

Your answer

[1]

13 Outline **one** criticism of Social Learning Theory as an explanation of criminal behaviour.

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

14

The Case of Bethan

Bethan is a 16-year-old who has been caught stealing from shops on a number of occasions. Her excuse is that she mainly does it because it gives her a sense of excitement.

Using the source:

Outline **one** way in which rehabilitation could be used to try to reduce Bethan’s offending behaviour.

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

15 Using Eysenck’s Criminal Personality Theories, briefly explain the role of neuropsychology in criminal behaviour.

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





**Section D**

**Research Methods**

Answer **all** the questions.

You have been asked to carry out an **experiment** to investigate whether people drive more safely depending on whether they are talking to someone or not. The theory is that talking will distract drivers so that they are not paying full attention to their driving.

Use this space to plan your investigation.

**17** Write a null hypothesis for your investigation.

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

**18** Explain how you would measure the dependent variable in your investigation.

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

19 (a) Name the experimental design you would use in your investigation.

..... [1]

(b) Outline **one** strength of using this experimental design in your investigation.

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

(c) Outline **one** weakness of using this experimental design in your investigation.

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

20 Outline the procedure you would use in your investigation.

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

21 Explain how you would manage **one** ethical issue in your investigation.

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





**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 rectangular area for writing, bounded by a solid vertical line on the left and horizontal dotted lines on the top, bottom, and right. The dotted lines are spaced evenly down the page.

A grid of 20 columns and 30 rows of dotted lines for writing. The grid is formed by a solid vertical line on the left and horizontal dotted lines. The first column is narrow, while the remaining 19 columns are wide and span the full height of the page.

A large rectangular area with a solid vertical line on the left side and horizontal dotted lines extending across the page, providing a space for writing answers.



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