A

AQA

Surname _____

Other Names _____

Centre Number _____

Candidate Number _____

Candidate Signature _____

I declare this is my own work.

A-level
PSYCHOLOGY

Paper 2 Psychology in context

7182/2

Time allowed: 2 hours

At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.

[Turn over]

J U N 2 1 7 1 8 2 2 0 1

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For this paper you may use:
- **a calculator.**

INSTRUCTIONS

- **Use black ink or black ball-point pen.**
- **Answer ALL questions. You must answer the questions in the spaces provided. Do NOT write on blank pages.**
- **If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).**
- **Do all rough work in this book. Cross through any work you do not want to be marked.**

INFORMATION

- **The marks for questions are shown in brackets.**
- **The maximum mark for this paper is 96.**
- **Questions should be answered in continuous prose. You will be assessed on your ability to:**
  - **use good English**
  - **organise information clearly**
  - **use specialist vocabulary where appropriate.**

DO NOT TURN OVER UNTIL TOLD TO DO SO

SECTION A

APPROACHES IN PSYCHOLOGY

Answer ALL questions in this section.

0 1

Outline the way in which Pavlov studied classical conditioning. [4 marks]

0 2

Some critics have said that Pavlov's studies may lack ecological validity.

What is meant by the term ecological validity?
[2 marks]

0 3

Jemima and Lily are identical twins. Lily complains to Jemima, "I don't understand it. If we have the same genes, how come you have clearer skin than me and are much better at netball?"

Jemima laughs and replies, "Lily, we may be identical twins, but we are not identical people."

Using your knowledge of genotype and phenotype, explain Lily's AND Jemima's comments. [4 marks]

[Turn over]

0 4

Lily and Jemima have a pet rat, which usually hides in a corner when they try to take it out of its cage. They have tried different ways to stop the rat hiding, but so far without success.

Use your knowledge of TWO types of reinforcement to suggest how Lily and Jemima could train their rat to come to the cage door when they open it. [6 marks]

[Turn over]

[Turn over]

0 5

Compare the humanistic approach with the psychodynamic approach. [8 marks]

[Turn over]

[Turn over]

[Turn over]

24

SECTION B

BIOPSYCHOLOGY

Answer ALL questions in this section.

0 6

Describe the structure AND function of a neuron.
[6 marks]

[Turn over]

0 7

Studies have identified Broca's area and Wernicke's area as responsible for language.

Outline the difference in function between Broca's area and Wernicke's area. [2 marks]

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[Turn over]

0 8

Discuss ways of studying the brain. [16 marks]

You may use this space to plan your answer.

[Turn over]

[Turn over]

[Turn over]

[Turn over]

[Turn over]

24

SECTION C

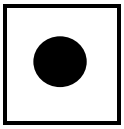
RESEARCH METHODS

Answer ALL questions in this section.

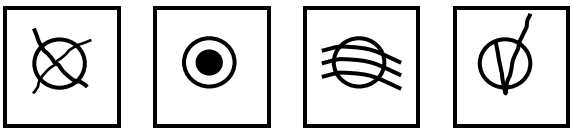
Only ONE answer per question is allowed.

For each question completely fill in the circle alongside the appropriate answer.

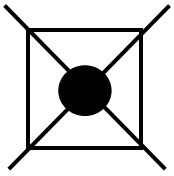
CORRECT METHOD



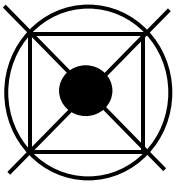
WRONG METHODS



If you want to change your answer you must cross out your original answer as shown.



If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.



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[Turn over]

A researcher placed an advert in a university psychology department asking for third year students to participate in a sleep experiment.

Each student had a sleep tracker watch to wear at home for the two-week study. Each morning they were asked to open the sleep tracker app to view their sleep quality data on their mobile phones. The students were unaware that the sleep data they could see on their phones had been manipulated by the researcher. Over the two weeks of the study, each student saw that he or she had had poor sleep quality for seven random nights of the experiment and good sleep quality for the remaining nights.

Every morning, after viewing the sleep data, each student completed a questionnaire about the previous night's sleep. One of the questions asked the students to rate how well rested they felt, on a scale from 1–10, after the previous night's sleep. Apart from this, students were asked to continue their normal everyday activities.

0 9

Which of the following best describes the experimental method used in this study?

Shade ONE box only. [1 mark]

- ○ **A Field experiment**
- ○ **B Laboratory experiment**
- ○ **C Natural experiment**
- ○ **D Quasi-experiment**

[Turn over]

1 0

Write a directional hypothesis the researcher might use for this study. [3 marks]

1 1

Which of the following best describes the sampling method used in this study?

Shade ONE box only. [1 mark]

- ○ **A Opportunity sampling**
- ○ **B Stratified sampling**
- ○ **C Systematic sampling**
- ○ **D Volunteer sampling**

[Turn over]

1 2

Explain ONE strength AND ONE limitation of using this sampling method in this study. [4 marks]

The researcher collected quantitative data about how well rested the students felt.

1 3

Explain ONE strength of collecting quantitative data in this study. [2 marks]

[Turn over]

One ethical issue in this study is deception, as the students were unaware that the sleep data they could see on their phones had been manipulated by the researcher.

1 4

Explain ONE way in which the researcher might deal with the deception in this study. [2 marks]

Apart from the question about how well rested the students felt, the researcher's questionnaire contained nine other questions. The responses to these questions were not analysed.

1 5

Explain ONE reason why the researcher decided to include these additional questions on the questionnaire. [2 marks]

[Turn over]

1 6

Explain ONE limitation of assessing sleep quality using a rating scale of 1–10. [2 marks]

The researcher believed that the actual number of hours slept by the students could have affected the results of the study.

1 7

Suggest ONE OTHER extraneous variable that could have affected the results of this study. Explain why it would have been important to control this extraneous variable and how it could have been controlled in this study. [4 marks]

[Turn over]

In a follow-up study, the researcher investigated whether there was a correlation between the number of hours slept and how well rested the students felt.

The researcher randomly selected 18 participants from first-year students at the university.

On the day of the study, each student participant was asked, 'How many hours did you sleep last night?' They then had to rate on a scale of 1 to 5 how well rested they felt.

The researcher hypothesised that there would be a positive correlation between the two co-variables.

1 8

Outline ONE reason why it was appropriate to conduct a correlation rather than an experiment in this case.
[2 marks]

[Turn over]

1 9

Describe how the researcher could have used random sampling to obtain the students for this study.
[3 marks]

The researcher used Spearman's rho statistical test to analyse the data from this study.

2 0

Explain why Spearman's rho was a suitable test for this study. Refer to the description of the study in your answer. [4 marks]

BLANK PAGE

[Turn over]

The researcher chose to use the 5% level of significance and the calculated correlation coefficient for the Spearman's rho test was 0.395

TABLE 1 Critical values of rho

Level of significance for a one-tailed test	0.05	0.025
Level of significance for a two-tailed test	0.10	0.05
N = 16	0.429	0.503
17	0.414	0.485
18	0.401	0.472
19	0.391	0.460
20	0.380	0.447

The calculated value of rho must be greater than or equal to the critical value to be significant.

2 1

Identify the appropriate critical value from TABLE 1. Explain your choice. [4 marks]

[Turn over]

2 2

Explain whether the researcher's hypothesis should be accepted. Refer to the critical value identified in QUESTION 21, on page 51, in your answer. [2 marks]

[Turn over]

2 3

Explain why the researcher decided to use the 5% level of significance rather than the 1% level in this study.
[2 marks]

When the researcher compared the calculated and critical values of rho, he began to wonder if he might have made a Type II error.

2 4

Explain what is meant by a Type II error in the context of this study. [2 marks]

[Turn over]

2 5

Discuss features of science. Refer to ONE OR MORE examples of psychological research in your answer.
[8 marks]

[Turn over]

[Turn over]

END OF QUESTIONS

48

Additional page, if required.

Write the question numbers in the left-hand margin.

Additional page, if required.

Write the question numbers in the left-hand margin.

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Section	Mark
A	
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TOTAL	

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