Please write clearly ir	n block capitals.
Centre number	Candidate number
Surname	
Forename(s)	
Candidate signature	I declare this is my own work.

A-level PSYCHOLOGY

Paper 2 Psychology in context

Time allowed: 2 hours

Section

A

В

С

TOTAL

For Examiner's Use

Mark

Materials

For this paper you may use:

a calculator.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions. You must answer the questions in the spaces provided. Do **not** write outside the box around each page or 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:

IB/G/Jun21/E9

- use good English
- organise information clearly
- use specialist vocabulary where appropriate.



	Section A	
	Approaches in psychology	
	Answer all questions in this section.	
0 1	Outline the way in which Pavlov studied classical conditioning.	[4 marks]
02	Some critics have said that Pavlov's studies may lack ecological validity. What is meant by the term ecological validity?	
		[2 marks]



		Do not write
03	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?"	outside the box
	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 for the next question	



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		Do not write
0 4	Lily and Jemima have a pet rat, which usually hides in a corner when they try to take it out	outside the box
V 4	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]	
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0 5	Compare the humanistic approach with the psychodynamic approach.	Do not write outside the box
	[8 m	arks]
		—

Turn over ►



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24

	Section B
	Biopsychology
	Answer all questions in this section.
6	Describe the structure and function of a neuron. [6 marks
7	Studies have identified Broca's area and Wernicke's area as responsible for language.
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]
7	Outline the difference in function between Broca's area and Wernicke's area.
7	Outline the difference in function between Broca's area and Wernicke's area.
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7	Outline the difference in function between Broca's area and Wernicke's area.



		Do not write outside the
0 8	Discuss ways of studying the brain. [16 ma	rks]
	You may use this space to plan your answer.	
]







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 box
24





1 0	Write a directional hypothesis the researcher might use for this study.	[3 marks]	Do not write outside the box
		[0	
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]	
1 2	Explain one strength and one limitation of using this sampling method in this s		
		[4 marks]	



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	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]
	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]



16	Explain one limitation of assessing sleep quality using a rating scale of 1–10. [2 marks]	Do not write outside the box
1 7	The researcher believed that the actual number of hours slept by the students could have affected the results of the study. 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]	
	Extra space	
	Turn over for the next question	



	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.
8	Outline one reason why it was appropriate to conduct a correlation rather than an
	experiment in this case. [2 marks]
9	
	Describe how the researcher could have used random sampling to obtain the students for
•	Describe how the researcher could have used random sampling to obtain the students for this study. [3 marks]
	this study.
<u> </u>	this study.
<u> </u>	this study.
	this study.



	The researcher used Spearman's rho statistical test to analyse the data from this study.	Do not write outside the box
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]	
	Extra space	
	Turn over for the next question	



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]

Extra space



Refer to the critical	Do not write outside the box
[2 marks]	

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 for the next question
	rum over for the next question



Turn over ►

Explain whether the researcher's hypothesis should be accepted.

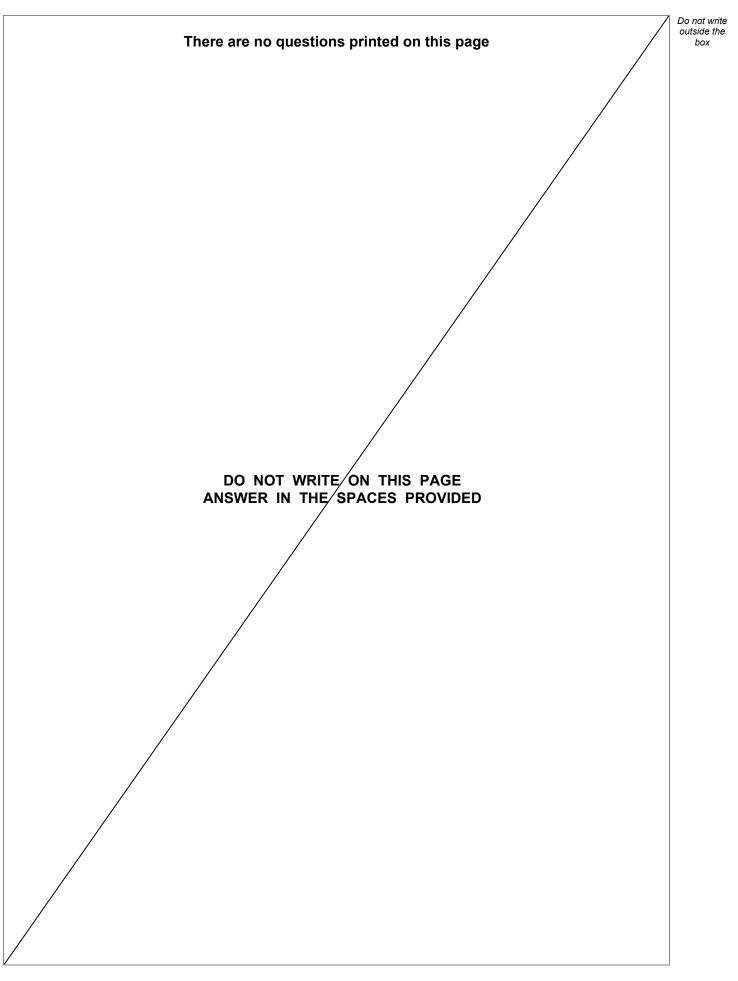
value identified in **Question 21** in your answer.

- 1			Do no outsid
2 5	Discuss features of science. Re your answer.	efer to one or more examples of psychological research	in ^b
	Joan anonon	[8 mark	(s]
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	21	
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	 OF QUESTIONS	





Question number	Additional page, if required. Write the question numbers in the left-hand margin.



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