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Centre number	Candidate number	
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A-level PSYCHOLOGY

Paper 2 Psychology in context

Friday 5 June 2020

Afternoon

Time allowed: 2 hours

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

For Examiner's Use			
Section	Mark		
Α			
В			
С			
TOTAL			



Section A

Approaches in psychology

Answer all questions in this section.

	Answer an questions in this section.	
Only o	ne answer per question is allowed.	
For eac	ch question completely fill in the circle alongside the appropriate answ	er.
CORRECT	METHOD WRONG METHODS	
If you v	vant to change your answer you must cross out your original answer a	as shown.
If you v	vish to return to an answer previously crossed out, ring the answer you wn.	u now wish to select
0 1	What is the correct arrangement of Maslow's hierarchy of needs from hierarchy?	n bottom to top of the
	Shade one circle only.	[1 mark]
	A Physiological, Safety, Love/belongingness, Esteem, Self-actualisation.	0
	B Physiological, Safety, Love/belongingness, Self-actualisation, Esteem.	0
	C Safety, Physiological, Love/belongingness, Esteem, Self-actualisation.	0
	D Safety, Physiological, Love/belongingness, Self-actualisation, Esteem.	0
0 2	Which of the following shows the correct order of the psychosexual s as proposed by the psychodynamic approach?	tages of development
	Shade one circle only.	[1 mark]
	A Oral, Anal, Genital, Latency, Phallic.	0
	B Oral, Anal, Phallic, Genital, Latency.	0
	C Oral, Anal, Phallic, Latency, Genital.	0
	D Oral, Genital, Anal, Phallic, Latency.	0



0 3	Describe the role of defence mechanisms according to the psychodynamic appr	oach. [2 marks]
		-
0 4	Briefly explain one strength and one limitation of the psychodynamic approach.	[4 marks]
	Extra space	
	Turn over for the next question	

Turn over ►



	Alison is a Psychology teacher who is keen to reduce plastic waste in her school. She puts a sticker showing an ocean full of plastic waste on each plastic bottle of water sold the canteen.		
	Alison asks canteen staff to increase the price of bottled water by 20 pence and offer free refills of water to any student taking in their own bottle.		
	Finally, Alison sets up a bottle return desk, where students can get 20 pence back for any plastic bottle they hand in for recycling.		
0 5	Describe and evaluate operant conditioning as a way of explaining people's behaviour. Refer to Alison's approach to reducing plastic waste in your answer. [16 marks]		
	You may use this space to plan your answer.		



Turn over ►



Extra space		



Turn over for the next section





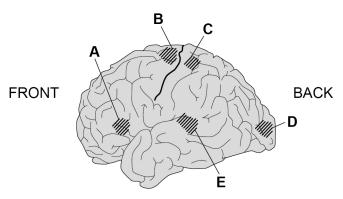
Section B

Biopsychology

Answer **all** questions in this section.

Figure 1 shows the left hemisphere of the human brain. Five areas of the brain are labelled A, B, C, D and E.

Figure 1



Using the letters given in **Figure 1**, correctly identify the areas of the brain to complete the table below.

[4 marks]

	Area of brain
Which area is responsible for processing sensations such as pain and pressure?	
Which area processes information such as colour and shape?	
Which area processes information such as pitch and volume?	
Which area is responsible for voluntary movements?	



0 7	Explain the difference between infradian rhythms and ultradian rhythms. [2 marks]
	A company of beautiful maticute has formed that a many during 7 common in its as offertive as other
8 0	A survey of hospital patients has found that a new drug, Zapurpain, is as effective as other pain medication.
	Explain one limitation of asking hospital patients to self-report the effectiveness of Zapurpain.
	[2 marks]
0 9	Zapurpain acts like an inhibitory neurotransmitter at the synapse.
	Explain how Zapurpain might affect the process of synaptic transmission through inhibition.
	[4 marks]





1 0	Explain one difference and one similarity between Functional Magnetic Resor Imaging (fMRI) and Event-Related Potentials (ERPs) as ways of studying the	
	Difference	
	Similarity	
1 1	Outline and evaluate split-brain research.	[8 marks]



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Section C

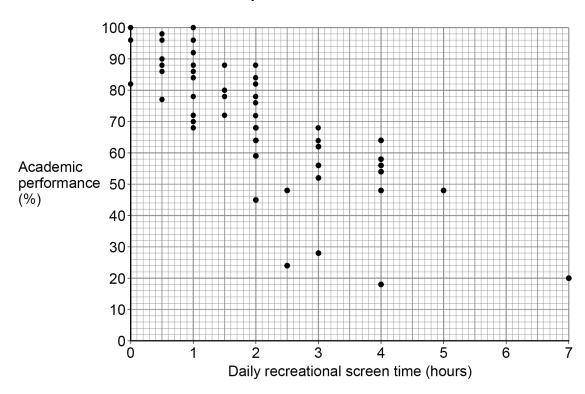
Research methods

Answer all questions in this section.

A study into the relationship between recreational screen time and academic achievement was conducted. Students were asked to self-report the number of hours spent watching TV, playing on their mobile phones or video games (daily recreational screen time) and their end-of-year test performances (academic performance).

The results of the study are shown in Figure 2.

Figure 2 The relationship between daily recreational screen time and academic performance



1 2 In which section(s) of a scientific report would you expect to find reference to the results/findings of the investigation?

Shade one circle only.

[1 mark]

Α	The abstract and the results sections only	0

- **B** The abstract, the discussion and the results sections only
- C The results and the discussion sections only
- **D** The results section only



1 3	Which of the following correlation co-efficients best describes the data representation Figure 2?	presented in	Do not write outside the box
	Shade one circle only.	[1 mark]	
	A -0.80	0	
	B -0.25	0	
	C +0.25	0	
	D +0.80	0	
1 4	Identify the type of graph shown in Figure 2 and explain why this is an ap to use for the data collected.	propriate graph [3 marks]	
1 5	Explain why it would not be appropriate for the researchers to conclude the recreational screen time reduces academic performance.	nat increased [2 marks]	
	Turn over for the next question		

Turn over ▶

	A psychologist reads a review of a meta-analysis confirming the relationship between recreational screen time and academic performance.	
1 6	What is meant by the term meta-analysis? [2 marks]]
		_

The psychologist decided to design an experiment to test the effects of recreational screen time on children's academic performance.

The psychologist randomly selected four schools from all the primary schools in her county to take part in the experiment involving Year 5 pupils. Three of the four schools agreed to take part. In total, there were 58 pupils whose parents consented for them to participate. The 58 pupils were then randomly allocated to **Group A** or **Group B**.

For the two-week period of the experiment, pupils in **Group A** had no recreational screen time. Pupils in **Group B** were allowed unrestricted recreational screen time. At the end of the experiment all pupils completed a 45-minute class test, to achieve a test score.

1 7 Complete **Table 1** by ticking the statement that best describes the population and the sample in the psychologist's experiment.

Place one tick in each column.

[2 marks]

Table 1

	Population	Sample
All the pupils in the selected four schools.		
All the Year 5 pupils across the world.		
All the Year 5 pupils in the county.		
All the Year 5 pupils in the selected three schools.		
All the 58 Year 5 pupils with parental consent in the selected three schools.		



	Briefly explain why a direct	ional hypothesis would be	most suitable for this experiment. [1 mark]
1 9	Write an appropriate hypot	hesis for this experiment.	[3 marks]
	The results obtained from t	he experiment are summar	
		Group A and Group	p B Group B
	Maga	(no screen time)	(unrestricted screen time)
	Mean Median	73.6 74.0	66.3 58.0
	Mode	74.0	44.0
	Standard deviation	13.2	25.1
2 0	Using the data in Table 2 , of the distribution of scores in		of scores in Group A differs from [4 marks]
2 0			
2 0			of scores in Group A differs from [4 marks]
2 0			





2 1	What do the mean and standard deviation values in Table 2 suggest about the the recreational screen time on test performance? Justify your answer.	
		[4 marks]
2 2	The psychologist wanted to test the statistical significance of the data.	
	Identify the most appropriate choice of statistical test for analysing the data coll explain three reasons for your choice in the context of this study.	ected and
	explain tinee reasons for your choice in the context of this study.	[7 marks]



2 3	One criticism of the study is that the pupils were not matched on their typical recreational screen time.
	Explain how the psychologist could have matched pupils on their typical recreational screen time across the experimental conditions.
	[4 marks]
	Evtra ange
	Extra space
2 4	Identify one other variable for which the psychologist could have matched the pupils. Explain how this might have affected the test performance if it was not controlled. [2 marks]
	Turn over for the next question



The feedback from one of the schools was that recreational screen time affected pupils' social interactions. The psychologist decided to investigate this further by using an observation of social interaction during playtime at the school.

2 5 Design the observation to investigate pupils' social interaction in the playground.

In your answer you will be awarded credit for providing appropriate details of:

- type of observation, with justification
- choice of time sampling **or** event sampling, with justification
- dealing with one relevant ethical issue
- assessing reliability of the data through inter-observer reliability.

[12 marks]

You may use this space to plan your answer.	



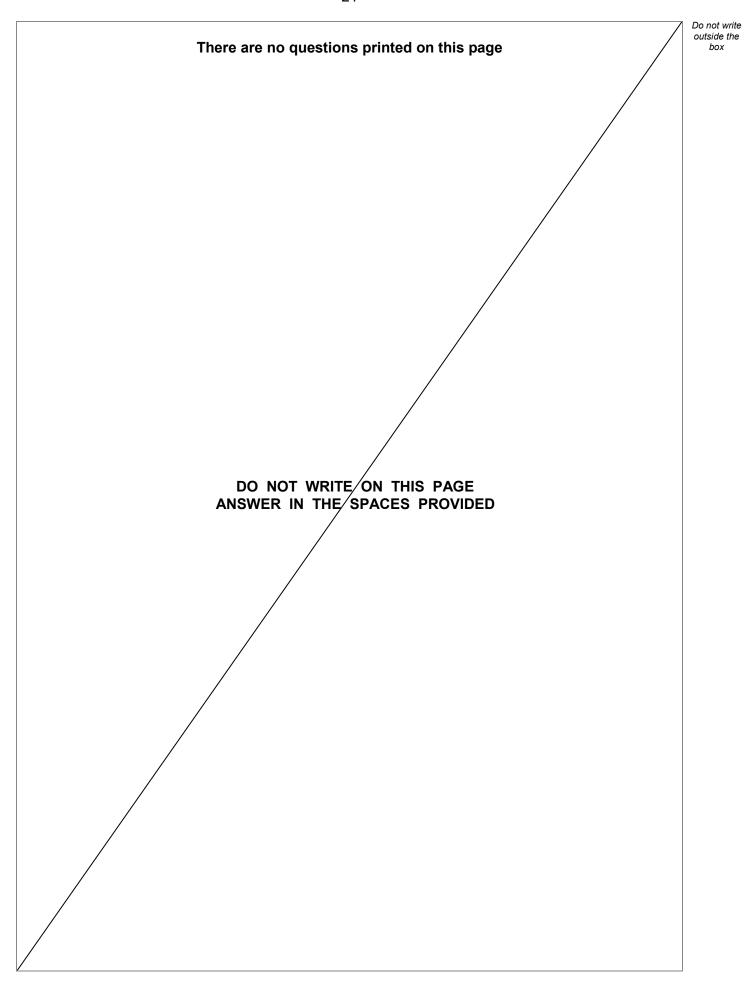
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END OF QUESTIONS	







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