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Centre number	Candidate number	
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Forename(s)		
Candidate signature	I declare this is my own work.	

# 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		
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TOTAL		

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### **Section A**

### Approaches in psychology

	Answer <b>all</b> questions in this section.				
	Answer an questions in this section.				
Only <b>o</b> ı	Only <b>one</b> 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 as show	vish to return to an answer previously crossed out, ring the answer you	u now wish to select			
0 1	What is the correct arrangement of Maslow's hierarchy of needs fron hierarchy?	n bottom to top of the			
	Shade <b>one</b> circle only.	[1 mark]			
	<b>A</b> Physiological, Safety, Love/belongingness, Esteem, Self-actualisation.	0			
	<b>B</b> Physiological, Safety, Love/belongingness, Self-actualisation, Esteem.	0			
	<b>C</b> Safety, Physiological, Love/belongingness, Esteem, Self-actualisation.	0			
	<b>D</b> Safety, Physiological, Love/belongingness, Self-actualisation, Esteem.	0			
0 2	Which of the following shows the correct order of the psychosexual sas proposed by the psychodynamic approach?	stages of development			
	Shade <b>one</b> circle only.	[1 mark]			
	A Oral, Anal, Genital, Latency, Phallic.				
	<b>B</b> Oral, Anal, Phallic, Genital, Latency.	0			
	C Oral, Anal, Phallic, Latency, Genital.	0			
	<b>D</b> Oral, Genital, Anal, Phallic, Latency.	0			



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



	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 in the canteen.	0
	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 <b>and</b> 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.	



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### **Section B**

## **Biopsychology**

Answer **all** questions in this section.

Figure 1

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

FRONT BACK

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?	



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0 7	Explain the difference between infradian rhythms and ultradian rhythms.  [2 marks]
0 8	A survey of hospital patients has found that a new drug, Zapurpain, is as effective as other pain medication.
	Explain <b>one</b> 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]





Explain one difference and one similarity between Functional Magnetic Resonance Imaging (fMRI) and Event-Related Potentials (ERPs) as ways of studying the brain.  [4 mark Difference	outsing b
Similarity  Outline and evaluate split-brain research.	
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### **Section C**

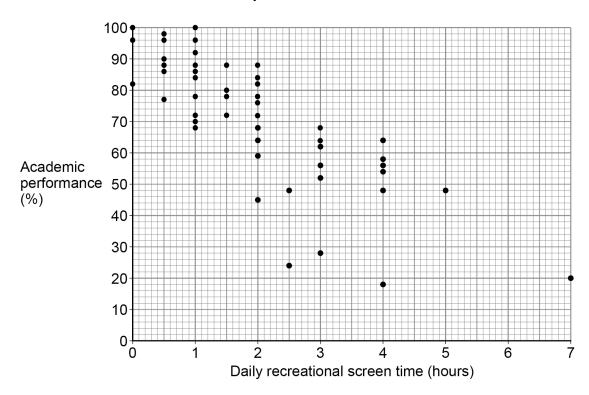
### Research methods

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]

- A The abstract and the results sections only
- **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 represented in <b>Figure 2</b> ?	
	Shade <b>one</b> circle only.	[4 mouls]
		[1 mark]
	<b>A</b> -0.80	0
	<b>B</b> -0.25	0
	<b>C</b> +0.25	0
	<b>D</b> +0.80	0
1 4	Identify the type of graph shown in <b>Figure 2</b> and explain why this is an a to use for the data collected.	opropriate graph [3 marks]
		[5 marks]
		hat in ava and
1 5	Explain why it would not be appropriate for the researchers to conclude t recreational screen time reduces academic performance.	
		[2 marks]
	Turn over for the next question	



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A psychologist reads a review of a meta-analysis confirming the relationship b	oetween
recreational screen time and academic performance.	

[2 marks]	What is meant by the term meta-analysis?	1 6

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.		



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8	Brie	əfly explain why a dired	ctional hypothesis would be	1 m
9	Wri	ite an appropriate hypo	othesis for this experiment.	[3 ma
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		Table 2 Descri	Group A (no screen time)  73.6 74.0	Group B  (unrestricted screen time)  66.3  58.0
0	Usir	Mean Median Mode Standard deviation	Group A (no screen time)  73.6  74.0  74.0  13.2  , explain how the distribution	Group B  (unrestricted screen time)  66.3  58.0  44.0
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What do the mean and standard deviation values in <b>Table 2</b> suggest able recreational screen time on test performance? Justify your answer.	[4 marks]
	[4 marks]
Γhe psychologist wanted to test the statistical significance of the data.	
dentify the most appropriate choice of statistical test for analysing the d	ata collected and
dentify the most appropriate choice of statistical test for analysing the dexplain <b>three</b> reasons for your choice in the context of this study.	
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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]
	Extra space
2 4	Identify <b>one</b> 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]

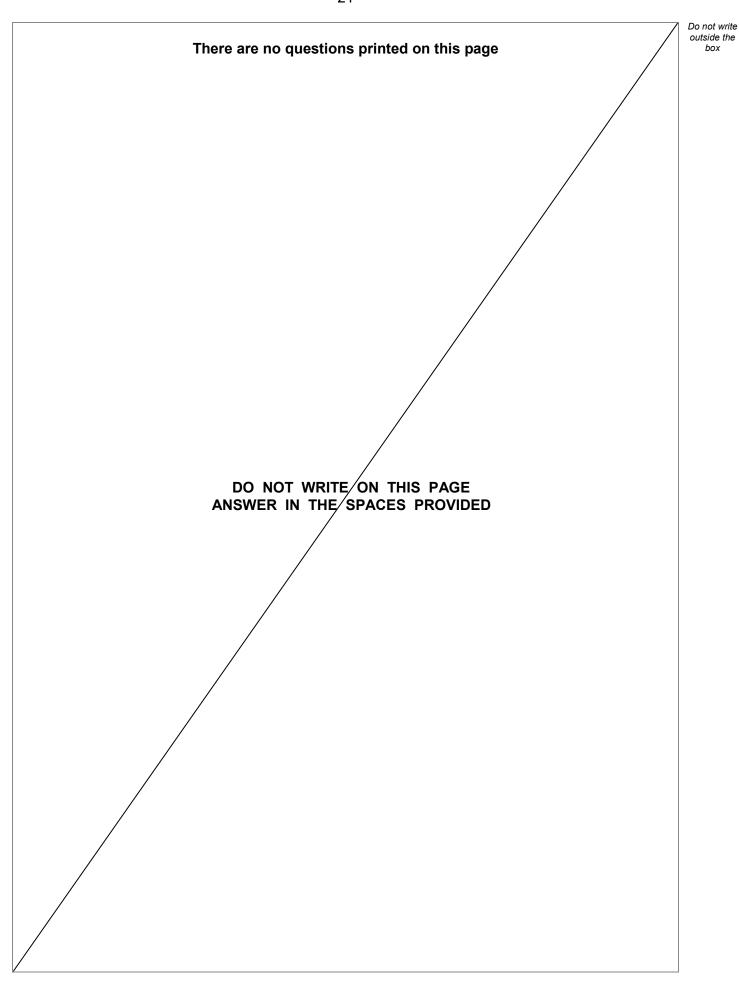
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