Please write clearly in	l block capitals.		
Centre number		Candidate number	
Surname			
Forename(s)			
Candidate signature			

A-level PSYCHOLOGY

Paper 2 Psychology in context

Wednesday 14 June 2017

Afternoon

Time allowed: 2 hours

For this paper you may use:

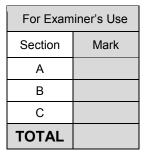
• a calculator.

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.
- 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.



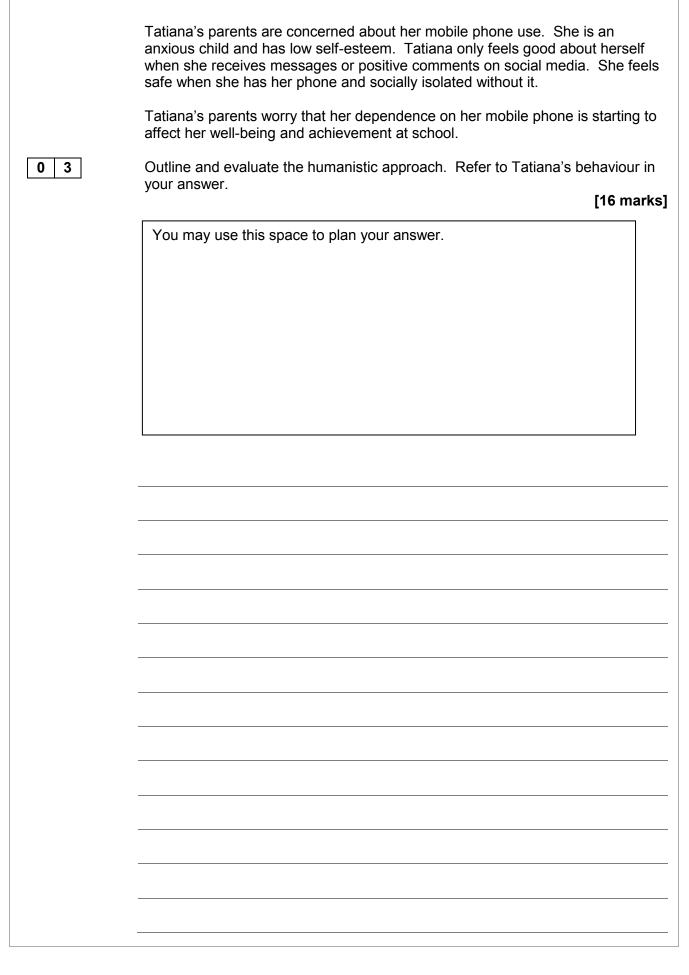


	Section A
	Approaches in psychology
	Answer all questions in this section.
	A recent study showed that Alzheimer's disease may be partly inherited.
	John's father suffered from Alzheimer's disease. John is keen to get genetically tested to see if he will develop Alzheimer's disease.
0 1	Explain why John's genotype will not reveal whether he will suffer from Alzheimer's disease.
	[4 marks]
	Extra space

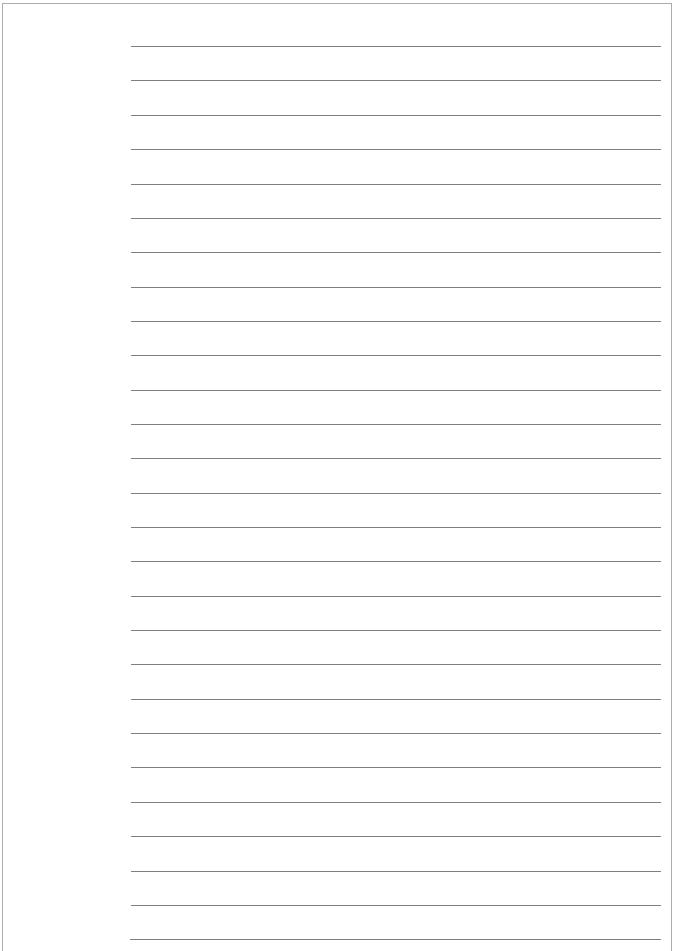


0 2	Describe the structure of the personality according to the psychodynal approach.	nic
		[4 marks]
	Extra space	





















	Section B	
	Biopsychology	
	Answer all questions in this section.	
0 4	Explain the process of synaptic transmission.	[4 marks]
	Extra space	



	Lotta's grandmother suffered a stroke to the left hemisphere, damaging Broca's area and the motor cortex.
0 5	Using your knowledge of the functions of Broca's area and the motor cortex, describe the problems that Lotta's grandmother is likely to experience.
	[4 marks]
	Extra space
	Extra space
	Lotta worries that because of her grandmother's age she will not be able to make any recovery.
0 6	Using your knowledge of plasticity and functional recovery of the brain after trauma, explain why Lotta might be wrong.
	[4 marks]



Extra space
A researcher wants to investigate the effectiveness of physiotherapy in the recovery of stroke patients with brain damage. Carers of stroke patients will be sent questionnaires to produce quantitative data.
Explain one disadvantage of obtaining quantitative data in this study.
[2 marks
-
Write one question that could be used in the researcher's questionnaire to
produce quantitative data and one question that could be used in the researcher's questionnaire to produce qualitative data.
[2 marks
-
Quantitative question:
Qualitative question:



09	Outline and evaluate one or more ways of studying the brain.	[8 marks]



Extra space



	Section C	
	Research methods	
	Answer all questions in this section.	
For each multiple-cho	oice question, completely fill in the circle alongside the app wrong метнодs 🗴 💿 🚖 🎸	ropriate answer.
If you want to change	e your answer you must cross out your original answer as s	shown
If you wish to return t select as shown.	to an answer previously crossed out, ring the answer you n	ow wish to
	sychologist wanted to test whether listening to music improvormance.	es running
psyc	psychologist conducted a study using 10 volunteers from a chologist used a repeated measures design. Half of the par gned to condition A (without music) and half to condition B	rticipants were
tread stan The retur	participants were asked to run 400 metres as fast as they co dmill in the psychology department. All participants were g idardised instructions. All participants wore headphones in psychologist recorded their running times in seconds. The rned to the psychology department the following week and in the other condition.	iven both conditions. participants
10 Iden	ntify the type of experiment used in this study. Shade one b	oox only.
A	Laboratory	0
В	Natural	0
C	Quasi	0
DF	Research	0
		[1 mark]



The results of the study are	aiyon in Table 1 below	
The results of the study are Table 1 Mean number of s standard deviation		e the 400m run ar
	Condition A (without music)	Condition (with music
Mean 400m time (s)	123	117
Standard deviation	9.97	14.5
Explain why a histogram w means shown in Table 1 .		
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400 metres when listening to music. Show your workings. Give to three significant figures.	[4 marks
	•
Extra space	



The researcher used a directional hypothesis and analysed the data using a related t-test. The calculated value of t where degrees of freedom (df) = 9 was 1.4377. He decided to use the 5% level of significance.

Table 2 Table of critical values of t

Level of significance for a one-tailed test	0.05	0.025
Level of significance for a two-tailed test	0.10	0.05
df = 1	6.314	12.706
2	2.920	4.303
3	2.353	3.182
4	2.132	2.776
5	2.015	2.571
6	1.943	2.447
7	1.895	2.365
8	1.860	2.306
9	1.833	2.262
10	1.812	2.228

Calculated value of t must be equal to or greater than the critical value in this table for significance to be shown.

Give **three** reasons why the researcher used a related t-test in this study and, using **Table 2**, explain whether or not the results are significant.

[5 marks]



Turn over ►

1 7	5% level of significance in their research.	[3 marks
	Extra space	
1 8	Identify one extraneous variable that could have affected the res study. Suggest why it would have been important to control this variable and how it could have been controlled in this study.	
1 8		
1 8	study. Suggest why it would have been important to control this	extraneous
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1 8	study. Suggest why it would have been important to control this	extraneous
1 8	study. Suggest why it would have been important to control this variable and how it could have been controlled in this study.	extraneous



1 9	The report was submitted for peer review and a number of recommendations were advised.
	Describe the process and purposes of peer review.
	[6 marks]
	Extra space



Turn over ►

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	People's perception of how they spend their time at the gym is often not very accurate. Some spend more time chatting than on the treadmill. A psychologist decides to observe the actual behaviour of an opportunity sample of gym users at a local gym.
2 0	Explain why it is more appropriate for the psychologist to use an observation than a questionnaire in this case.
	[3 marks]
	Extra space



Design an observational study to investigate how people spend their time at the gym.

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

- type of observation with justification
- operationalised behavioural categories
- use of time and/or event sampling with justification
- how reliability of data collection could be assessed.

[12 marks]

You may use this space to plan your answer.











END OF QUESTIONS

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