SPECIMEN MATERIAL SECOND SET

A-level PSYCHOLOGY (7182/2)

Paper 2 Psychology in Context

2017

Morning

Time allowed: 2 hours

Materials

For this paper you may have:

a calculator.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the bottom 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.

Please write clearly, in block capitals, to allow character computer recognition.						
Centre number	Candidate number					
Surname						
Forename(s)						
Candidate signature						

	Section A							
Approaches in Psychology								
	Answer all questions in this section							
Only one a	nswer per question is allowed.							
For each ar	For each answer completely fill in the circle alongside the appropriate answer							
CORRECT METH								
If you want	to change your answer you must cross out your original answer as	shown. 💌						
If you wish t select as sh	to return to an answer previously crossed out, ring the answer you r nown.	now wish to						
01.1	A phenotype is the result of the combined effect of Shade one box only.							
	A neurotransmitters and environment.	0						
	B inheritance and environment.	0						
	C genetic makeup and neurotransmitters.	\bigcirc						
	D genotype and evolution.	0						
		[1 mark]						
01.2	Which one of the following statements about evolution is false ? Shade one box only.							
	A Evolution involves adapting to the environment.	\bigcirc						
	B Evolution involves breeding of those best able to survive.	0						
	C Evolution involves common genetic material between species.	0						
	D Evolution involves changes in behaviour from one generation to the next	0						
		[1 mark]						

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02	Read the item and then answer the question that follows.
	Bradley has just started to play snooker and is keen to play well. He watches carefully when his partner takes a difficult shot then tries to copy the same shot. He thinks about how his partner was holding the snooker cue and whether he can do the same.
	Social learning theorists refer to the role of mediational processes in learning. Referring to Bradley's experiences, explain the role of mediational processes in learning. [4 marks]
03	Describe Wundt's role in the development of psychology. [6 marks]

04	Briefly explain one strength and one limitation of the cognitive approach in psychology. [4 marks]
0 5	Outline the psychodynamic approach in psychology. Discuss one or more differences between the psychodynamic approach and the humanistic approach. [8 marks]

Turn over for the next section

	Section B
	Biopsychology
	Answer all questions in this section
0 6	Outline the role of adrenaline in the fight or flight response. [4 marks
0 7	Robert suffered a stroke at the age of 55. After the stroke he was paralysed down his right side, though he could move his left arm and leg easily. Robert could clearly understand what was said to him, but was unable to produce any speech.
	Discuss how knowledge of hemispheric lateralisation and language centres in the brain has helped our understanding of cases such as Robert's. Refer to Robert's case in your answer.
	[16 marks
	You may use this space to plan your answer.

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	Extra space
	A psychologist wanted to test the effects of biological rhythms on the ability to solve maths problems. She used random sampling to form two groups each of 20 students.
	She tested one group on one set of maths problems at 3 am in the morning. The other group were tested on another set of maths problems at 3 pm in the afternoon. She found that performance of the group tested at 3 pm was significantly better than the group tested at 3 am.
	When submitted for peer review the paper was rejected because of serious design problems.
0 8	Explain one problem with the design of this study and suggest ways of dealing with this problem.
	[4 marks]



Section C

Research methods

Answer all questions in this section

Read the item and then answer the questions that follow.

Researchers were interested in the spatial awareness skills of motorists. They decided to investigate a possible relationship between different aspects of spatial awareness. Motorists who had between ten and twelve years of driving experience and held a clean driving licence with no penalty points were asked to complete two sets of tasks.

Set 1: To follow a series of instructions and using a map, to identify various locations correctly. This provided a map reading score for each motorist with a maximum score of 20.

Set 2: To complete a series of practical driving tasks accurately. This involved tasks such as driving between cones, driving within lines and parking inside designated spaces. Each motorist was observed completing the **Set 2** tasks by a single trained observer who rated each performance by giving the driver a rating out of 10.

The following results were obtained.

Participant driver	Map reading score	Driver rating
1	17	9
2	8	4
3	15	7
4	12	6
5	3	2
6	4	4
7	6	8
8	14	6
9	19	10

Table 1: The map reading scores and driver ratings of motorists

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Should the hypothesis be directional? Explain your answer.

[2 marks]

10	Write a suitable hypothesis for this investigation. [3 marks]
11	Identify a suitable graphical display for the data in Table 1 and briefly explain why this display would be appropriate. [2 marks]
12	Using the data in Table 1 , comment on the relationship between the map reading scores and the driver rating scores of the participants. [3 marks]

1 3	Briefly outline one problem of using a single trained observer to rate the participants' driving skills in the practical task. Briefly discuss how this data collection method could be modified to improve the reliability of the data collected.	
	[6 mai	ˈks]
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1 4	The researchers decided to analyse the data using a Spearman's rho test.	
	Explain why this is a suitable choice of test for this investigation.	kel
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			Level	of significance	e for a two-taile	ed test
			0.10 Level	0.05 of significance	0.02 e for a one-taile	0.01 ed test
			0.05	0.025	0.01	0.005
	N=	8	0.643	0.738	0.833	0.881
		9 10	0.564	0.700	0.785	0.835
C le	alculatec	l r _s must l 'n.	EQUAL or EX	CEED the critica	al value for sign	ficance at the
]	After a r _s = 0.8	analysis c 308.	of the data the	researchers ob	tained a calcula	ted value of
	Using draw a motori	the inform about the ists? Exr	mation in Tabl relationship b	l e 2 above, wha between the map	t conclusion car p reading and d	the research iving skills of
			, , , , , , , , , , , , , , , , , , ,			[4

1	4

1 6	Distinguish between a Type I error and a Type II error.				
	When the possible g	researchers loc Jender difference	oked at the data colled es in the results.	cted more closely the	y noticed
	Results table of means and standard deviations for the map reading scores of male and female motorists.				
			Map read	ing scores	
		Mean	Males 15.4	Females 5.25	
		Sd	2.70	2.22	
1 7	What do th female pe	he mean and sta rformances in th	andard deviation valu ne investigation?	ies suggest about the	male and [4 marks]

1 8

In a replication of the part of the study in which map reading skills were investigated, 20 men and 20 women completed the original map reading task and the researchers obtained the following data:

Male map reading scores	17, 20, 13, 12, 13, 11, 8, 17, 12, 15, 14, 18, 20, 17, 17, 15, 13, 10, 5, 9.
Female map reading scores	12, 8, 10, 11, 4, 2, 11, 18, 17, 12, 13, 10, 3, 15, 11, 9, 10, 11, 16, 10.

The mean map reading score for both groups together was 12.23.

What percentage of the male group scored above the mean score and what percentage of the female group scored above the mean score? Show your calculations.

[4 marks]

9 Using your answers to both question 17 and question 18, comment on the performances of the male and the female participants in this study. [2 mark: 2 0 Briefly explain one reason why it is important for research to be replicated. [2 mark:		
Image: Second state of the		
9 Using your answers to both question 17 and question 18, comment on the performances of the male and the female participants in this study. [2 mark: 10 Briefly explain one reason why it is important for research to be replicated.		
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2 1

Imagine you have been asked to design a study to investigate possible gender differences in card sorting behaviours. You decide you will ask participants to sort a shuffled pack of playing cards into their suits of hearts, clubs, diamonds and spades. You decide you will time the participants as they do this using a stop watch.

Discuss the following aspects of this investigation:

- with reference to the card sorting task, explain how you would ensure that this is made the same task for all participants
- **one** methodological issue you should take into account when obtaining suitable participants for this study and explain how you would deal with this issue
- how you would ensure that the experience of your participants is ethical.

[9 marks]

You may use this space to plan your answer.

Extra space

END OF QUESTIONS





