

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

GCSE PSYCHOLOGY

Paper 1 Cognition and Behaviour

Time allowed: 1 hour 45 minutes

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 100.
- Question 12 is a synoptic question in which you will be rewarded for your ability to draw together different areas of knowledge and understanding from across the full course of study.
- 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 UseSectionMarkA-B-C-D-TOTAL



	Section A	
	Memory	
	Answer all questions in the spaces provided.	
-	answer per question is allowed, except where stated otherwise.	
	question completely fill in the circle alongside the appropriate answer.	
	nt to change your answer you must cross out your original answer as shown.	,
If you wis as showr	sh to return to an answer previously crossed out, ring the answer you now wish t n. 💌	to select
0 1	Oscar is learning both French and Spanish at school. Sometimes he gets c and uses French words when he is speaking Spanish.	onfused
	Which of the following factors best explains the problem Oscar is experienci	ng?
	Shade one box.	[1 mark]
		[mark]
	A Context	
	B False memory	
	C Interference	
	D Serial position	



02	What is meant by 'storage' as a process of memory?	Do not write outside the box
	[2 marks]	
	Turn over for the next question	
	Turn over	



Read the following information.

0 3

Libby and Yasir are talking about how they plan to revise for a Biology test.

Libby: "I will start with a list of the key terms I need to learn. I will look up what each one means in my textbook and write down a definition for each key term."

Yasir: "I will draw pictures and diagrams of what I need to learn. This helps me to remember information."

Outline the process of encoding. Refer to Libby and Yasir's conversation in your answer.

[4 marks]



0 4	Describe and evaluate the multi-store model of memory. [9 marks]	Do not write outside the box
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		Do roturit
0 5	Bartlett investigated the idea that memory is an active process. He gave each participant a Native American Indian story called 'War of the Ghosts'. He then asked each participant to retell this story several times. He found that participants changed parts of the story when they retold it.	Do not write outside the box
	Evaluate Bartlett's 'War of the Ghosts' study.	
	[5 marks]	

0 7

Turn over ►

0 6	Read the following information.	Do not write outside the box
	A researcher carried out a study into false memory. Each participant was shown five photos and asked what they remembered about these events from their childhood.	
	However, only four of these photos showed a genuine event from their childhood. The other photo showed a fake image of the participant on a hot air balloon ride. None of the participants had ever experienced a hot air balloon ride.	
06.1	Calculate what fraction of the photos shown to each participant were fake. [1 mark]	
06.2	The researcher had to choose the order in which to show a set of five photos.	
	Describe how the researcher could have used randomisation to decide the order. [3 marks]	
		25







Turn over 🕨

0 9 What is meant by percept	otion?	Do not write outside the box
	[2 marks]]
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10.1	Calculate the percentage of participants in Group 2 who incorrectly perceive	Do n outs
	Müller-Lyer illusion.	
	State your answer rounded to one significant figure. Show your workings.	[3 marks]
	Workings:	
	Answer	
10.2	What is the ratio of participants who incorrectly perceived the Müller-Lyer illu Group 1 compared to Group 2?	ision in
	Write this ratio in its simplest form.	[2 marks]
	Question 10 continues on the next page	



10.3 Outline one conclusion about the participants' perception of the Müller-Lyer illusion that the researcher could draw from his results. How can this conclusion be explained using Gregory's constructivist theory of perception? [4 marks]			Do not write outside the
perception?	10.3	Outline one conclusion about the participants' perception of the Müller-Lyer illusion that the researcher could draw from his results.	
perception? [4 marks]		How can this conclusion be explained using Gregory's constructivist theory of	
		perception?	



		Do not write
	Figure 2: The Necker cube illusion	outside the box
1 1	Figure 2 shows the Necker cube illusion.	
	Outline how psychologists would explain the Necker cube illusion. [3 mar	ks]
	Turn over for the next question	



		Do ou
2	Describe Gilchrist and Nesberg's study into how motivation affects perceptio	n.
	Evaluate the research method used in this study.	
		[9 marks]









	0	
	Section C	
	Development	
	Answer all questions in the spaces provide	ed.
1 3	Research suggests that nature plays a role in early brain	n development.
	Which of the following is a way that nature can affect bra	ain development?
	Shade one box only.	[1 mark]
		[1 mark]
	A Experiences with other people	0
	B Genes	0
	C Getting an infection	0
	D Neglect	0
1 4	Which of the following best describes the function of the	e cortex?
	Shade one box only.	
		[1 mark]
	A Controls basic autonomic functions	0
	B Controls cognitive processes	0
	C Coordinates movement and balance	0
	D Passes on information from the sense organs	0



Read the following information.

1 5

Megan and her dad are visiting a farm.

Megan is very excited to see the animals and shouts, "Look at the little horse, daddy. It is so cute!"

Her dad explains, "Actually it is a donkey, Megan. Although it looks very similar to a horse, a donkey has a thicker coat, longer ears and a shorter tail than a horse."

Briefly describe Piaget's concept of accommodation.

According to this concept, how will her dad's explanation affect Megan's understanding of horses?

[4 marks]

Turn over for the next question

Read the following information.

1 6

Four-year-old Ibrahim and his auntie go to a café for a drink. His auntie buys two cartons of apple juice which are identical in size. She pours Ibrahim's carton into a tall narrow glass. She pours her own carton into a short wide glass. Ibrahim says to his auntie "I have got more juice than you".

Briefly describe Piaget's concept of conservation.

Refer to Ibrahim in your answer.

[4 marks]



1 7	McGarrigle and Donaldson investigated conservation in the 'naughty teddy study'.	Do not write outside the box
	Describe and evaluate this study. [6 marks]	
	Turn over for the next question	



You have been asked to compare the effects of using different learning styles to revise the structure of the brain. Describe how you would design an experiment to do this.

You need to include:

1 8

- the tasks participants would be asked to do to revise the structure of the brain using a verbaliser **and** a visualiser learning style
- one example of a standardised procedure that you would use **and** a justification for why this should be used
- one ethical consideration you would need to address and how you would deal with this.

[6 marks]



Do not write outside the box

25

Willingham has criticised the use of learning styles.	
Briefly outline his criticism of learning styles.	[3 m
Turn over for the next section	



Turn over ►

				ation D		
				ection D		
				rch Methods		
		Ansv	wer all question	is in the spaces provided.		
2 0	Whie	ch of the follow	wing is most lik	kely to give secondary data?		
	Sha	de one box.				[1 mark]
		Asking particip avourite shop		te a questionnaire about their	0	[many
	в	Collecting info	rmation already	v published by high street retailers	0	
	C 1	The researche	r interviewing s	hoppers in a supermarket	0	
	D	The researche	r observing par	ticipants in a shopping centre	0	
	A B		median = 26 median = 26	mode = 29 mode = 26	0	
	С	mean = 29	median = 20	mode = 25	0	
	D	mean = 29	median = 26	mode = 24	0	
					-	



2 2	Read the following information.	Do not write outside the box
	A researcher wanted to investigate whether the timing of the school day affected student attendance. The head teacher at a local school allowed him to carry out an experiment with all 190 Year 9 students over an eight-week period.	
	In the first part of the experiment, the school day began at 8.30 am and finished at 3.30 pm for four weeks (the early start condition).	
	In the second part of the experiment, the school day began at 10.00 am and finished at 5.00 pm for four weeks (the late start condition).	
	The researcher recorded the total number of school days missed for Year 9 students during the first and second parts of the experiment.	
22.1	Identify the independent variable in this experiment. [1 mark]	
22.2	Identify the dependent variable in this experiment. [1 mark]	
22.3	Write a null hypothesis that the researcher can use in this experiment. [2 marks]	
	Question 22 continues on the next page	



Turn over ►

	Early start condition	Late start condition
Fotal number of days missed	266	76
2.4 Table 2 shov and late start	s the total number of days missed conditions.	by 190 Year 9 students in the e
Calculate the	mean number of days missed by	students in the late start condition
Show your w	orkings.	10
		[2
Workings:		
Answer		



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Do not write outside the box





2 2 7	This study is an example of a field experiment.	Do not write outside the box
	Evaluate the use of field experiments in psychological research.	
	[5 marks]	



		Do not write
2 2 8	The psychologist wanted to interview a sample of the students in his experiment to find out how they felt about starting school earlier and later in the day. He thought about using either opportunity or systematic sampling to get his sample of students.	outside the box
	Outline both opportunity and systematic sampling.	
	Compare the use of these sampling methods using your knowledge of their strengths and/or weaknesses.	
	[6 marks]	



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		25
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Question number	Additional page, if required. Write the question numbers in the left-hand margin.



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Question number	Additional page, if required. Write the question numbers in the left-hand margin.	Do not write outside the box



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