OXFORD AQA

INTERNATIONAL QUALIFICATIONS

Please write clearly in block capitals.

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I declare this is my own work.

INTERNATIONAL AS
PSYCHOLOGY

Unit 2 Biopsychology, Development and Research Methods 1

Tuesday 16 January 2024 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator, which you are expected to use where appropriate.

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.
- All working must be shown.
- 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 90.

For Examiner's Use	
Question	Mark
A	
B	
C	
TOTAL	

Do not write outside the box

Section A: Biopsychology

Answer **all** questions in the spaces provided.

0 1 Describe the function of the somatic nervous system.

[3 marks]

0 2 Describe the function of the autonomic nervous system.

[3 marks]

Do not write outside the box

0 3 Explain the function of the endocrine system.

[4 marks]

Turn over for the next question

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0 4 Amour is a split brain patient who had her right and left hemispheres separated. Amour takes part in an experimental procedure known as the divided field. In this experiment, an object is flashed to one visual field only. The researcher flashes a picture of a tree to the left visual field of Amour's left eye.

When the researcher asks Amour to name the object she saw, Amour is unable to name or give any description of the tree. However, Amour is able to draw the tree with her left hand.

Describe and evaluate split brain research. Refer to Amour in your answer.

[20 marks]

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Do not write outside the box

Extra space

30

Do not write outside the box

Turn over for the next question

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ANSWER IN THE SPACES PROVIDED

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Section B: Cognitive Development

Answer **all** questions in the spaces provided.

Only **one** answer per question is allowed.

For each question completely fill in the circle alongside the appropriate answer.

CORRECT METHOD WRONG METHODS

If you want to change your answer you must cross out your original answer as shown.

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.

0 5 Below are four statements describing cognitive development.

Which **one** of the following statements does **not** describe cognitive development according to Vygotsky's theory?

Shade **one** box only.

[1 mark]

A Cognitive development happens during social interactions. ⬭

B Cognitive development is based on mental processes children are born with. ⬭

C Cognitive development occurs in stages. ⬭

D Cognitive development requires inner speech. ⬭

0 6 Briefly outline what is meant by the term scaffolding, in cognitive development.

[2 marks]

Do not write outside the box

0 7 What is meant by theory of mind?

[3 marks]

Turn over for the next question

Do not write outside the box

0 8 Wilma and Abe are 4 months old and take part in a study investigating violation of expectation. A large train and a small train move along a track and pass behind a screen with a window. The large train can be seen in the window but not the small train.

Abe is in the control condition and only sees the small train which disappears behind the screen. It cannot be seen in the window.

Wilma is in the experimental condition and watches as the large train disappears behind the screen. Although the train should be seen in the window, it does not appear. The researcher finds that Wilma looks longer at the screen than Abe.

Using your knowledge of Baillargeon's violation of expectation research, explain why Wilma looks longer at the screen than Abe.

[6 marks]

Extra space

Do not write outside the box

0 9 Describe the procedure and findings of **one** study that investigates Piaget's theory of cognitive development.

[6 marks]

Extra space

Do not write outside the box

1 0 Describe and evaluate research into the role of the mirror neuron system in social cognition.

[12 marks]

Do not write outside the box

Extra space

30

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Section C: Research Methods 1

Answer **all** questions in the spaces provided.

Studies have shown that estimates of the speed of vehicles involved in accidents were higher when the participants were asked questions with words that suggested a fast speed rather than a slow speed.

A researcher used a sample of 30 university students. The students watched a video of an accident between a car and a bus. They were then asked six questions about the accident. The critical question asked the students to estimate the speed of the car. The answers to the other five questions were not used for analysis. The researcher did not obtain fully informed consent.

The students were randomly allocated into one of two conditions:

Condition 1: The students were asked: "What speed do you think the car was going when it touched the bus?"

Condition 2: The students were asked: "What speed do you think the car was going when it crashed into the bus?"

1 1 Briefly explain the difference between an aim and a hypothesis.

[2 marks]

Do not write outside the box

1 2 What type of variable is the estimate of the speed of the car?

Shade **one** box only.

[1 mark]

A Control variable ⬭

B Dependent variable ⬭

C Extraneous variable ⬭

D Independent variable ⬭

1 3 Explain why the researcher could **not** gain fully informed consent from the students in this study.

[4 marks]

1 4 Apart from informed consent, briefly explain **one other** ethical issue the researcher needed to consider for this study.

[2 marks]

Do not write outside the box

1 5 The researcher used a directional hypothesis. Explain why a directional hypothesis was appropriate.

[2 marks]

1 6 . 1 Explain **one** reason why the researcher randomly allocated the students to the two conditions.

[3 marks]

1 6 . 2 Explain how the researcher could have randomly allocated the students to the two conditions.

[4 marks]

Do not write outside the box

1 7 With reference to demand characteristics, explain why the researcher included the five other questions which were not relevant to this study.

[3 marks]

Turn over for the next question

Do not write outside the box

The researcher analysed the answers to the critical question about the speed of the car and showed the mean estimates in **Table 1**.

Table 1 Mean speed estimates in miles per hour (mph) for 'touched' (condition 1) and 'crashed' (condition 2)

	Touched (condition 1)	**Crashed (condition 2)**
Mean speed estimate (mph)	25	50

1 8 Using the speed estimates from **Table 1**, draw an appropriate graph to display the data. You should include a title and label your graph appropriately.

[4 marks]

Title _____

Do not write outside the box

1 9 The researcher calculated the mean speed estimates.

Briefly explain **one** limitation of using the mean as a measure of central tendency.

[2 marks]

2 0 The sample of students consisted of 18 female and 12 male students.

Calculate the percentage of male students in the sample.
Show your workings.

[2 marks]

2 1 Name the method used in this study.

[1 mark]

30

END OF QUESTIONS

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ANSWER IN THE SPACES PROVIDED

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