

Psychology

Advanced Subsidiary

PAPER 2: Biological Psychology and Learning Theories

Monday 22 May 2023 – Afternoon

Time: 1 hour 30 minutes

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

YOU MUST HAVE

Nil

YOU WILL BE GIVEN

Formulae and statistical tables Booklet

Diagram Booklet

INSTRUCTIONS

Answer ALL questions.

Answer the questions in the spaces provided in this Question Paper or in the separate Diagram Booklet – there may be more space than you need.

INFORMATION

The total mark for this paper is 70.

The marks for EACH question are shown in brackets – use this as a guide as to how much time to spend on each question.

The list of formulae and statistical tables are provided as a separate booklet.

Candidates may use a calculator.

There may be spare copies of some diagrams.

ADVICE

Read each question carefully before you start to answer it.

Try to answer every question.

Check your answers if you have time at the end.

Answer ALL questions.

SECTION A: BIOLOGICAL PSYCHOLOGY

- 1 When studying biological psychology, you will have learned about Freud's psychodynamic explanation of aggression.**
- (a) Look at TABLE 1 for Question 1(a) in the Diagram Booklet. Complete TABLE 1 with the name for the different parts of the personality in the space provided.
(3 marks)**
- (b) Explain TWO weaknesses of Freud's psychodynamic explanation of aggression.
(4 marks)**

Answer space continues on the next page.

1 _____

Turn over

1(b) continued.

2

(Total for Question 1 = 7 marks)

- 2 Claus is a 14-year-old teenager who has been getting into trouble in basketball matches. He frequently pushes opposition players over during games when his team is losing. As a result, the coach asks Claus to sit out of the game, and then Claus reacts in a rude manner to the coach.**

- (a) Describe how ONE hormone could explain Claus's aggressive behaviour.
(2 marks)**

(continued on the next page)

2 continued.

- (b) Explain ONE strength of hormones as an explanation for aggression.
(2 marks)**

(Total for Question 2 = 4 marks)

3 You were required to carry out a practical investigation in biological psychology.

**(a) State the aim of your practical investigation in biological psychology.
(1 mark)**

(continued on the next page)

3 continued.

- (b) Describe how you gathered the sample for your practical investigation in biological psychology.
(2 marks)**

(continued on the next page)

3 continued.

**(c) Describe the results of your practical investigation in biological psychology.
(3 marks)**

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Turn over

3(c) continued.

(continued on the next page)

3 continued.

- (d) Explain ONE strength and ONE weakness of your practical investigation in biological psychology.
(4 marks)**

Answer space continues on the next page.

Strength

3(d) continued.

Weakness

(Total for Question 3 = 10 marks)

- 4 **Biological psychology has been used to explain key questions of relevance to today's society.**

**Discuss the key question for society you have studied using concepts, theories and/or research from biological psychology.
(8 marks)**

Answer space continues on the next 5 pages.

Key question

4 continued.

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4 continued.

(Total for Question 4 = 8 marks)

TOTAL FOR SECTION A = 29 MARKS

SECTION B: LEARNING THEORIES

5 As part of your psychology course you will have covered social learning theory.

(a) Define what is meant by 'retention' as used in social learning theory.

(1 mark)

(continued on the next page)

5 continued.

- (b) Define what is meant by 'reproduction' as used in social learning theory.
(1 mark)**

(continued on the next page)

5 continued.

**(c) Explain ONE strength of social learning theory.
(2 marks)**

(continued on the next page)

5 continued.

- (d) Explain TWO weaknesses of social learning theory.
(4 marks)**

Answer space continues on the next page.

1 _____

2 _____

5(d) continued.

(Total for Question 5 = 8 marks)

- 6 Claire recently got a new puppy and it will not sit when she commands it to. She is deciding whether to take her puppy to a dog training school. During the dog training class, a dog biscuit is given to the puppy as a treat when it sits after the owner commands it to.**

Claire asked to observe a session of the dog training class before she decides to take her puppy to a training school.

The dog training classes were divided into two groups:

- **Group A – 25 puppies that had received the training.**
- **Group B – 25 puppies that had not yet received the training.**

Claire tallied the number of puppies in each group that sat when their owner commanded them to.

(continued on the next page)

6 continued.

Claire's results are shown in TABLE 2 below.

TABLE 2

	Puppies that sat on command	Puppies that did not sit on command
Group A: Puppies that had received the training	20	5
Group B: Puppies that had not yet received the training	10	15

- (a) Look at the grid for Question 6(a) in the Diagram Booklet. Draw a bar chart to display the number of puppies in each group that sat on command using the data from TABLE 2.
(3 marks)

(continued on the next page)

6 continued.

- (b) Look at TABLE 3 for Question 6(b) in the Diagram Booklet. Complete TABLE 3 to calculate the chi-squared for Claire's data to TWO decimal places.
(4 marks)**

SPACE FOR CALCULATIONS

Chi-squared (X^2) _____

(continued on the next page)

6 continued.

- (c) Explain ONE strength of Claire using quantitative data in her investigation.
(2 marks)**

(Total for Question 6 = 9 marks)

- 7 In learning theories you will have studied operant conditioning.**

**Explain ONE strength and ONE weakness of operant conditioning.
(4 marks)**

Answer space continues on the next page.

Strength

7 continued.

Weakness

(Total for Question 7 = 4 marks)

- 8 Evaluate ONE treatment for phobias based on theories of learning, other than systematic desensitisation. (8 marks)**

Answer space continues on the next 5 pages.

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8 continued.

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[illegible]

Turn over

8 continued.

[illegible]

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8 continued.

[illegible]

Turn over

8 continued.

(Total for Question 8 = 8 marks)

TOTAL FOR SECTION B = 29 MARKS

SECTION C

- 9 Evaluate the classic studies by Raine et al. (1997) and Watson and Rayner (1920) in terms of validity and generalisability.
(12 marks)**

Answer space continues on the next 7 pages.

9 continued.

[illegible]

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9 continued.

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9 continued.

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(Total for Question 9 = 12 marks)

TOTAL FOR SECTION C = 12 MARKS

TOTAL FOR PAPER = 70 MARKS

END OF PAPER