Surname	Centre Number	Candidate Number
Other Names		2

GCE A LEVEL

A290U20-1

S19-A290U20-1

PSYCHOLOGY – A level component 2
Psychology: Investigating Behaviour

FRIDAY, 7 JUNE 2019 – AFTERNOON

2 hours 15 minutes

For Examiner's use only		
Question	**Maximum Mark**	**Mark Awarded**
1.	**3**	
2.	**5**	
3.	**10**	
4.	**6**	
5.	**6**	
6.	**10**	
7.	**13**	
8.	**17**	
9.	**19**	
10.	**11**	
Total	**100**	

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ADDITIONAL MATERIALS

You may require a calculator and a ruler.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use pencil or gel pen. Do not use correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** the questions.

Write your answers in the spaces provided in this booklet. If you run out of space, use the additional page(s) at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

You are reminded of the necessity for good English and orderly, clear presentation in your answers.

Assessment will take into account the quality of written communication used in your answers.

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SECTION A – Principles of Research

Answer **all** *questions.*

1. Identify the measures of central tendency from the calculations presented below. [1+1+1]

(i) 3, 3, 3, 4, 5, 6, 7, 7, 9, 10.

5 + 6 = 11

$\frac{11}{2} = 5.5$

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(ii) 3 + 3 + 3 + 4 + 5 + 6 + 7 + 7 + 9 + 10 = 57

$\frac{57}{10} = 5.7$

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(iii) 3, 3, 3, 4, 5, 6, 7, 7, 9, 10.

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2. Describe the format for reporting psychological investigations. [5]

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3. *(a)* Explain the steps you would follow to calculate a standard deviation. [6]

$$\sqrt{\frac{\sum(x-\bar{x})^2}{n-1}}$$

(b) Explain **one** strength and **one** weakness of using standard deviations in psychology. [2+2]

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4. Describe the following methodologies:

(a) Non-participant observations. [2]

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(b) Case studies. [2]

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(c) Structured interviews. [2]

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5. Explain the strengths of longitudinal studies and the weaknesses of cross-sectional studies. [3+3]

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6. *(a)* Explain ethical issues that may arise in Social Psychological research, such as Milgram's (1963) research *'Behavioural Study of Obedience'*. [5]

(b) Explain ethical issues that may arise in Developmental Psychological research, such as Kohlberg's (1968) research *'The child as a moral philosopher'*. [5]

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SECTION B – Personal Investigations

You should answer **all** *the questions in this section with reference to the investigations carried out in your study of psychology.*

INVESTIGATION ONE: An experiment on the Chameleon effect.

7. *(a)* Identify the location of research used in your experiment on the Chameleon effect and explain why this location was the most appropriate for your research. [1+3]

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(b) (i) Explain how you operationalised your independent variable. [2]

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(ii) Explain how you operationalised your dependent variable. [2]

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(c) A psychologist wants to replicate your research. Suggest improvements that they could make. [5]

INVESTIGATION TWO: A questionnaire on relationships.

8. *(a)* (i) Describe the sampling technique used in your research. [2]

(ii) Explain **one** advantage and **one** disadvantage of using this sampling technique in your research. [2+2]

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(b) Explain how you chose to display and analyse the data from your research. You should include your justification for choosing the graphical representations and descriptive statistics that you used to display the data collected from your questionnaire. [6]

(c) Apart from weaknesses of your chosen sampling technique, explain **one** other weakness of your research and explain how this weakness could be improved. [2+3]

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SECTION C – Application of research methods to a novel scenario

Answer **all** *questions.*

9. A psychologist is concerned about the impact that playing violent computer games is having on the development of school children; specifically the concern that school children are becoming too aggressive. He decided to investigate the issue using a quasi-experiment and a matched pairs experimental design. The IV was 'whether the participant regularly plays on violent computer games or not'. The psychologist then assessed the aggression level by identifying the number of incidents recorded by the children's schools which indicated aggression (such as fighting, bullying etc.). One of the findings that he reported was the range scores of both conditions.

	Participants who regularly play on violent computer games	**Participants who do not regularly play on violent computer games**
Range score	6	3

(a) Explain why the researcher may have chosen to use a quasi-experiment in this research. [2]

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(b) Suggest an appropriate directional hypothesis for this research. [2]

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(c) Give **two** advantages of using a matched pairs design in this research. [2+2]

(d) Explain **one** factor that the researcher may have used to match the participants in this research. [2]

(e) Identify **one** ethical issue and explain why it may have been an issue in this research. [1+2]

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(f) (i) Draw **one** conclusion from the range scores in this research. [2]

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(ii) Explain **one** weakness of using the range scores in this research. [2]

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(g) Explain why a peer reviewer might consider researcher bias to be an issue in this research. [2]

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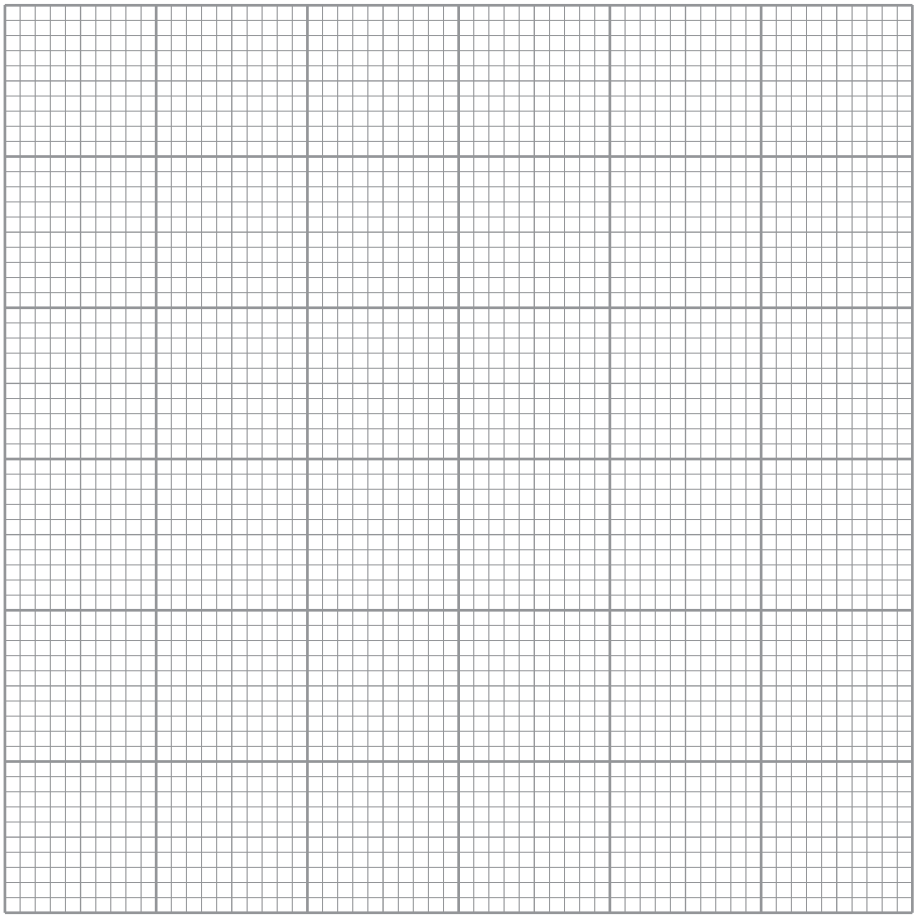
10. A librarian is concerned about the low numbers of college students borrowing books from the college library. To investigate his concerns he wanted to plot the number of occasions where a book had been borrowed from the college library in the last five years onto a graph.

Year	2014	2015	2016	2017	2018
No. of occasions where a book had been borrowed from the College Library (to the nearest hundred)	15,600	15,200	14,800	14,700	13,800

(a) (i) Identify **one** appropriate graphical representation that could be used to display the data in this research. [1]

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(ii) Using the graphical representation that you identified in *(a)* (i) display the data in this research. [4]



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(b) The librarian also wanted to collect some qualitative data about why the college students are borrowing fewer books from the college library. As you study research methods in A Level Psychology, he asks you to do this. Identify and justify your choices of methodology and sampling technique in this research. [6]

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END OF PAPER

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Question number	Additional page, if required. Write the question number(s) in the left-hand margin.

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