



GCE A LEVEL

1290U40-1

MONDAY, 5 JUNE 2023 – AFTERNOON

PSYCHOLOGY – A2 unit 4

Applied Research Methods

**1 hour 30 minutes plus your additional
time allowance**

Surname _____

First name(s) _____

Centre Number _____

Candidate Number 2 _____

For Examiner's use only

Question	Maximum Mark	Mark Awarded
1.	14	
2.	16	
3.	10	
4.	20	
Total	60	

ADDITIONAL MATERIALS

You may require a calculator and a ruler.

INSTRUCTIONS TO CANDIDATES

Use black ink, black ball-point pen or your usual method.

Write your name, centre number and candidate number in the spaces provided on the front cover.

Answer ALL questions.

Write your answers in the spaces provided in this booklet. Additional space is provided for some questions within the booklet (if required). If further space is required for any question, you should use the additional page(s) at the back of the booklet, taking care to number the question(s) correctly.

(Turn over)

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 presentation in your answers.

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

(Turn over)

SECTION A – PERSONAL INVESTIGATIONS

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

INVESTIGATION ONE:

A CONTENT ANALYSIS OF ANTI-SOCIAL BEHAVIOUR IN THE MEDIA.

(Turn over)

INVESTIGATION TWO:

A QUESTIONNAIRE ON PET OWNERSHIP AND STRESS.

2 (a) Using an example from your questionnaire, identify and explain what type of data you collected.

[3 marks]

(Turn over)

2 (b) Describe ONE ethical issue you faced during your questionnaire study and explain how you dealt with it. [4 marks]

(Turn over)

2 (c) (i)

Identify ONE descriptive statistic you used to summarise the results of your questionnaire study. [1 mark]

(Turn over)

2 (c) (ii)

Justify why the descriptive statistic identified in (c)(i) was appropriate for your questionnaire study. [2 marks]

SECTION B – Application of research methods to novel scenarios

Answer ALL questions.

3. A woman, known as M.T., had an accident and suffered a brain injury which resulted in her suffering from memory and speech problems. Whilst receiving treatment for her injuries, a researcher conducted a case study on M.T. One method used to investigate the extent of M.T.'s brain injury was a brain scan.

(a) (i) Identify ONE type of brain scan.

[1 mark]

(Turn over)

- 4. A psychologist conducted an experiment on whether familiarity with the teacher affects students' obedience within a classroom. The psychologist used an opportunity sample of 10 male and 20 female students from one GCSE class. In their Monday morning lesson, their usual teacher taught the lesson. On Wednesday afternoon, a teacher not known to the students taught the lesson. Both lessons were secretly filmed and independent reviewers noted down how many students obeyed (completed the task) or disobeyed (did not complete the task) the teacher. A table of results can be seen opposite.**

(Turn over)

NUMBER OF STUDENTS		
	OBEYED	DISOBEYED
Familiar teacher	22	8
Unfamiliar teacher	17	13

4 (a) (i)

Fully explain how the independent variable was operationalised in this research. [2 marks]

4 (a) (ii)

Fully explain how the dependent variable was operationalised in this research. [2 marks]

4 (b) Explain how ONE confounding variable could affect this research. [2 marks]

(c) (i) Identify the inferential statistical test the researcher would need to use to analyse his data. [1 mark]

(Turn over)

**4 (d) Evaluate ONE strength and ONE weakness of opportunity sampling.
[2 marks + 2 marks]**

(Turn over)

END OF PAPER

(Turn over)

