GCE A LEVEL

1290U40-1

S18-1290U40-1

PSYCHOLOGY – A2 unit 4
Applied Research Methods

FRIDAY, 8 JUNE 2018 – MORNING

1 hour 30 minutes

ADDITIONAL MATERIALS

A WJEC pink 16-page answer booklet.
You may require a calculator and a ruler.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.
Answer **all** questions.
Write your answers in the separate answer booklet provided.

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 – 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:

An experiment on the effect of context on an individual's perception.

1. *(a)* State the null hypothesis from your research. [2]

(b) Describe how you collected your results and justify how they were analysed, using a statistical test, and state whether this led to your results being significant. [10]

(c) Identify **two** issues of validity you considered when planning your research and explain how these were dealt with. [3+3]

INVESTIGATION TWO:

An observation on sharing behaviour.

2. *(a)* (i) Explain how you operationalised sharing behaviour in your observation. [2]

(ii) Briefly describe an extraneous variable that wasn't controlled during your observation. [2]

(b) Briefly describe how you used either time sampling or event sampling as part of your procedure. [2]

(c) Identify **two** ethical issues you considered when planning your observation and explain how these were dealt with. [3+3]

SECTION B – Application of research methods to novel scenarios

Answer **all** *questions.*

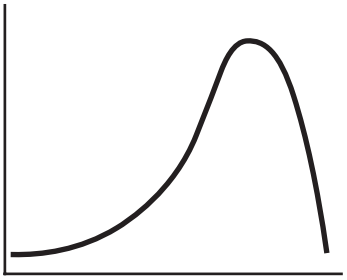
3. A research psychologist was concerned about the rise of obesity throughout the UK. Using a sample of 2000 people from a typical town the psychologist collected data on the participants' weight and age. The psychologist collected descriptive data using measures of central tendency. The results are shown in the table below.

Age	Mean weight (in pounds)	Mode	Median
16-25	122	119	120
26-45	184	196	186

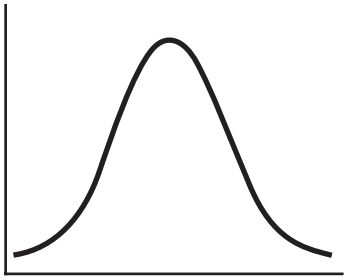
(a) State the level of measurement of this data. Explain your answer. [2]

(b) The data for the age group 26-45 was plotted on a distribution graph. Which of the graphs below (1, 2 or 3) illustrates the above results? Explain your answer. [2]

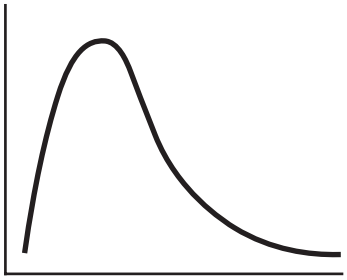
1
Negatively Skewed



2
Normal (no skew)



3
Positively Skewed



(c) State what the results tell us about the rise of obesity in this study. [2]

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4. A psychologist is interested in bystander intervention. The psychologist wants to see how many people would stop and help a distressed woman, depending on how she is dressed. Explain how you would carry out this study. [15]

In your answer you could include:

- The experimental hypothesis
- Type of experimental method/design
- The setting
- The sample
- Operationalisation
- Extraneous variables
- Checking reliability
- Checking validity
- Ethical issues

5. A psychologist carried out a longitudinal study into the effects of a new type of anti-psychotic drug. The drug was prescribed to eight men who had suffered from long term mental health issues. The men took the drug each week over a five year period. A questionnaire was given to the men every six months asking how they were responding to the medication and also to record any side effects. The results from the questionnaire were kept confidential.

(a) Briefly describe what is meant by the term 'longitudinal study'. [2]

(b) Identify and explain **two** disadvantages of using a longitudinal study for this research. [2+2]

(c) Explain why the results from the questionnaire were kept confidential. [3]

END OF PAPER

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