

Year 11 Psychology 2016

Response One - Research Methods

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Instructions to candidates -**

Total:

/ 50

%

Working time: 50 minutes

Materials provided to the candidate: question/answer booklet

Materials provided by the candidate: pens, pencils, erasers, ruler

Attempt *all* questions.

**SECTION ONE: RESEARCH METHODS**

**Question 1: (12 marks)**

Researchers wanted to determine the effect of drinking caffeine on students’ heart rates. The researchers collected 100 Year 11 student volunteers. Fifty students were randomly assigned to Group One and fifty were assigned to Group Two.

The following sequence of tasks was undertaken by each of the participants.

* Sit calmly in a quiet room for five minutes
* Drink one cup of hot coffee (for Group One, no caffeine; for Group Two, caffeine).
* Have researcher measure heart rate.
* Return and repeat the procedure on two more consecutive days.

At the conclusion of the study, the following statistics were calculated.

Group One – no caffeine. Mean heart rate = 70 beats per minute.

Group Two – caffeine. Mean heart rate = 85 beats per minute.

* + 1. Identify the operational independent variable. (1 mark)

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* + 1. Identify the operational dependent variable. (1 mark)

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1. Write an operational hypothesis that the researchers could test in this study. (2 marks)

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1. In the above experiment, explain why the experiment is:
   * 1. Reliable (1 mark)

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* + 1. Valid (1 mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Identify **one (1)** source of error in the design of this experiment and suggest a way of reducing this error.

(2 marks)

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1. Identify:
   * 1. **One (1)** controlled variable (1 mark)

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* + 1. **One (1)** uncontrolled variable (1 mark)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. State the following: (2 marks)
2. Population: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ii. Sample: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question Two: (6 marks)**

**Identify** the independent and dependant variable in each hypothesis.

1. The relationship between exposure to television from ages 0-4 years and the level of social interaction the child had in primary school. (2 marks)

Independent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dependent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The relationship between the frequency of symptoms of post-traumatic stress disorder and a sufferer’s level of resilience. ( 2 marks)

Independent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dependent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The relationship between the frequency of headaches experiences and the volume of music listened to in the car. (2 marks)

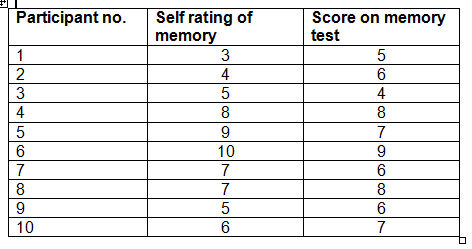
Independent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dependent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

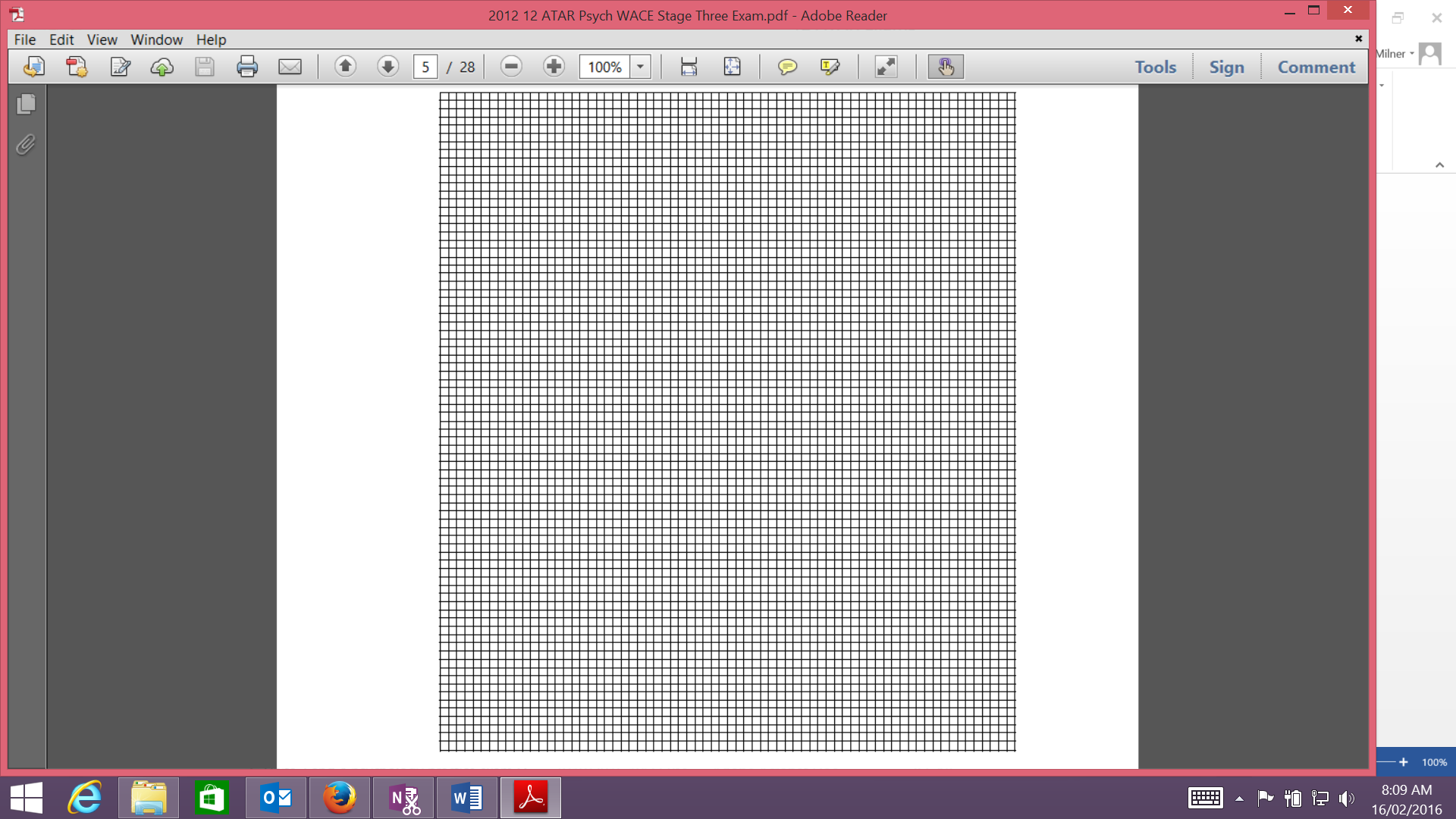
**Question Three: (8 marks)**

A researcher has conducted a study to investigate the relationship between how good people think their memory is, and how well they actually do on a memory test. The first variable was ‘self-rating of memory’ and was measured by asking people to rate their memory on a 10-point scale (where 1 = very poor and 10 = excellent). The second variable was ‘actual memory’ and this was measured by showing them a video of a minor road accident and asking them a series of 10 eye-witness questions.

Results were as follows:



1. On the grid below, sketch an appropriately labelled scattergraph displaying the results. (4 marks)



grid

1. Using the “Self-rating of memory” data, calculate the: (4 marks)
2. mean

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1. mode

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. median

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. range

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question Four: (5 marks)**

1. Name three *non-experimental* data collecting techniques: (3 marks)

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Choose *one* of your non-experimental techniques from part (a) and describe a single disadvantage and advantage associated with this particular technique: (2 marks)

Advantage:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Disadvantage:

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**Question Five: (4 marks)**

1. **Contrast** experimental research and non-experimental research. (2 marks)

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1. **Describe** the difference between the population and sample used in psychological research. (2 marks)

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**Question Six: (3 marks)**

A third year psychology student surveyed 100 of her fellow students on the topic of what attracts them to others. When she completed her study, she posted the student’s names and responses on the notice board in the café.

**Name** an ethical principle that was breached in the above scenario and **explain** how this principle was breached.

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**Section Two: Extended answer**

In this section there is **one (1)** question that you must answer.

Pages are included in this booklet to plan and write your answer.

* Planning: if you use a page for planning, indicate this clearly at the top of the page.
* Answering: in the pages provided, clearly indicate the section of the question are answering.

Suggested working time: 20 minutes

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**Question Seven: (12 marks)**

A university lecturer has been asked to conduct research investigating how mild pain affects memory formation. She decides to use students from her tutorial class. She separates the students into two groups. She shows students in Group A a list of 20 words and then gives them two minutes to recall as many of the words as possible. She then shows those in Group B the same list of 20 words, administers a mild electric shock and then gives them two minutes to recall as many of the words as possible.

* **State** one major issue that an ethics committee may have with this research and **explain** why this is an area of concern.
* **Explain** how you would address each of the four main ethical guidelines if you were to conduct this research.

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**END OF RESPONSE**