

# OCR

Oxford Cambridge and RSA

## Monday 11 May 2015 – Afternoon

### AS GCE PSYCHOLOGY

#### G541/01 Psychological Investigations

Candidates answer on the Question Paper.

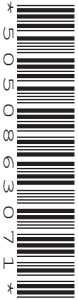
**OCR supplied materials:**

None

**Other materials required:**

None

**Duration:** 1 hour



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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#### INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions in Sections A, B and C.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

#### INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- Quality of written communication is assessed throughout this paper.
- This document consists of **12** pages. Any blank pages are indicated.

**SECTION A**

Answer **all** questions

Does music sound better at night? Some research suggests that when seeing gets more difficult as light levels fall, our sense of hearing becomes more sensitive. To investigate this psychologists conducted a laboratory experiment using ten participants. First they sat in a room illuminated by natural daylight and were played an extract of classical music. One hour later the same participants sat in a dark room with no window and were played another piece of classical music. On each occasion participants had to rate how clear the music sounded on a scale of 1 (very unclear) to 10 (very clear).

1 (a) Identify the experimental design used in this study.

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..... [2]

(b) Outline **one** strength and **one** weakness of using this experimental design in this study.

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..... [6]

2 Identify and evaluate how the dependent variable has been operationalised in this study.

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3 (a) Explain how you would calculate the mean of how clear the music sounded in each condition of this experiment.

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(b) When would the median be more appropriate and why?

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**SECTION B**

Answer **all** questions

Space invaders. People often feel uncomfortable when strangers sit next to them, like on a bus, and invade their personal space. In such circumstances people often use territorial markers to indicate they would not like anyone to sit next to them, such as placing their coat on the empty seat at their side. To investigate this psychologists used the observational method to study the use of territorial markers by passengers on a bus. The data collected is presented below.

<b>Frequency of use of territorial markers by passengers on a bus journey</b>				
Places coat on empty seat	Puts bag on empty seat	Stretches legs out across empty seat	Sits in the middle of two seats	Puts arm out across empty seat
12	8	3	2	5

4 Outline **two** findings from the data in this table.

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5 Describe **one** ethical issue that the researchers needed to consider when conducting this observation and suggest how this could be dealt with.

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6 (a) What sampling method is used in this study and how do you know this?

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(b) Identify **one** strength and **one** weakness of using this sampling method in this study.

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7 Outline **one** strength and **one** weakness of conducting observational research in this study.

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**SECTION C**

Answer **all** questions.

Help! I need somebody. But why is it that people don't always receive help when they need it? Psychologists want to investigate this using the self-report method.

**8 (a)** What is random sampling?

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**(b)** Suggest **one** strength of using random sampling in this study.

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10 (a) Suggest **one** change that could be made to the way this study is conducted that still uses the self-report method.

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(b) Outline one effect this change may have.

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..... [3]

**END OF QUESTION PAPER**

**ADDITIONAL ANSWER SPACE**

If additional answer space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margins.

A large area of lined paper for writing answers. It features a vertical margin line on the left side and horizontal dotted lines for writing. The lines are evenly spaced and extend across the width of the page.

A series of horizontal dotted lines spanning the width of the page, intended for writing. A solid vertical line is positioned on the left side, approximately one-tenth of the way from the left edge, extending from the top to the bottom of the dotted line area.

A large area of the page is reserved for writing, featuring a vertical solid line on the left side and horizontal dotted lines extending across the page.



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