



# SPECIMEN

Advanced Subsidiary GCE  
GCE PSYCHOLOGY

## G541 QP

Unit G541: Psychological Investigations

**Specimen Paper**

Morning/Afternoon

Time: 1 hour

Additional Materials: Answer Booklet (...pages)



### INSTRUCTIONS TO CANDIDATES

- Answer **all** the questions.

### INFORMATION FOR CANDIDATES

- The number of marks for each question is given in brackets [ ] at the end of each question or part of question.
- The total number of marks for this paper is **60**.

### ADVICE TO CANDIDATES

- Read each question carefully and make sure you know what you have to do before starting your answer.

Quality of written communication is assessed throughout this paper.

Candidates should;

- ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear;
- select and use a form and style of writing appropriate to purpose and to complex subject matter
- organise information clearly and coherently, using specialist vocabulary when appropriate

This document consists of **5** printed pages.



### Section A

Answer **all** questions.

A researcher has conducted an experiment to see if people recall more words from a list of ten words when they learn and recall in the same room rather than if they learn in one room and recall in a different room. This was an independent measures design.

The results were as follows:

	Recall in same room	Recall in different room
No of words recalled	9	2
	8	6
	8	8
	7	6
	7	7
	8	9

- 1 (a) Suggest an appropriate null hypothesis for this experiment [4]
- (b) Identify the independent variable and the dependent variable in this experiment. [2]
- 2 (a) What is meant by an 'independent measures' design? [2]
- (b) What is meant by a 'repeated measures' design? [2]
- (c) Outline **one** strength and **one** weakness of using an independent measures design for this experiment. [6]
- 3 Outline **two** findings that might be drawn from this data. [4]

**Section A Total [20]**

**Section B**

Answer **all** questions.

A researcher wishes to conduct an observation of students' use of their free time in college.

- 4 Describe and evaluate a suitable procedure for this observation. [10]
- 5 Describe **one** ethical issue that the researcher needs to consider when conducting this observation and suggest how this could be dealt with. [4]
- 6 (a) Explain what is meant by inter-rater reliability. [2]
- (b) Suggest how the researcher could ensure that this observation has inter-rater reliability. [4]

**Section B Total [20]**

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### Section C

Answer **all** questions.

A researcher has conducted a correlational study to investigate the relationship between how good people think their memory is and how well they 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:

Participant no	Self rating of memory	Score on Memory test
1	3	5
2	4	6
3	5	4
4	8	8
5	9	7
6	10	9
7	7	6
8	7	8
9	5	6
10	6	7

- 7 (a) Sketch an appropriately labelled scattergraph displaying the results. [4]  
 (b) Outline **one** conclusion that can be drawn from this scattergraph [3]
- 8 Suggest **one** problem with the way 'self rating of memory' has been measured in this investigation. [3]
- 9 Describe and evaluate **two** other ways in which 'actual memory' might be measured. [10]

**Section C Total [20]**

**Paper Total [60]**