

General Certificate of Education

Psychology 5181

Specification A

Unit 3 (PYA3) Social Psychology and Research Methods

Mark Scheme

2007 examination - June series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

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UNIT 3 (PYA3) QUALITY OF WRITTEN COMMUNICATION (QoWC)

2 marks	The work is characterised by some or all of the		
	following:		
	 clear expression of ideas 		
	 good range of specialist terms 		
	• few errors in grammar, punctuation and spelling		
	 errors do not detract from the clarity of the 		
	material.		
1 mark	The work is characterised by:		
	 reasonable expression of ideas 		
	 use of some specialist terms 		
	 errors of grammar, punctuation and spelling 		
	 errors detract from the clarity of the material. 		
0 marks	The work is characterised by:		
	 poor expression of ideas 		
	 limited use of specialist terms 		
	 errors and poor grammar, punctuation and 		
	spelling		
	errors obscure the clarity of the material.		

ASSESSMENT OBJECTIVES ONE, TWO AND THREE

A01	Assessment objective one = knowledge and understanding of psychological theories, terminology, concepts, studies and methods and communication of knowledge and understanding of psychology in a clear and effective manner.
AO2	Assessment objective two = analysis and evaluation of psychological theories, concepts, studies and methods and communication of knowledge and understanding of psychology in a clear and effective manner.
AO3	Assessment objective three = design, conduct and report psychological investigation(s) choosing from a range of methods, and taking into account the issues of reliability, validity and ethics, and collect and draw conclusions from the data.

SECTION A: SOCIAL PSYCHOLOGY

1 (a) (i) Name **three** ethical issues that have arisen in social influence research.

(3 marks)

Marking Criteria		Performance Descriptions
The ethical issues given on the specification are:	3	Candidate identifies three ethical issues.
deception	2	Candidate identifies two ethical issues.
 (informed) consent 	1	Candidate identifies one ethical issue.
 (protection from) psychological harm. 	0	Candidate does not identify any ethical issues.
However, other ethical issues are also creditworthy.		

1 (a) (ii) Select **one** of these and explain why it is an ethical issue.

(3 marks)

Marking Criteria		Performance Descriptions
Ethical issues occur when there is a dilemma between what the researcher wants to do in order to conduct the research and the rights and dignity of the participants.	3	Accurate and reasonably detailed The candidate provides an accurate and reasonably detailed explanation of why this is an ethical issue that demonstrates relevant knowledge and understanding. For example, deception is an issue because unless participants know all about the study they cannot give their informed consent and may find themselves taking part in a study against their wishes.
Deception is an ethical issue because it prevents a participant from giving their informed consent. It is also an issue because the participants may start to become distrustful of psychologists in the future.	2	Less detailed but generally accurate The candidate provides a less detailed but generally accurate explanation of why this is an ethical issue that demonstrates relevant knowledge and/or understanding. For example, protection from psychological harm is an issue because participants do not expect to be harmed when they volunteer to take part in a study; they expect to be treated fairly.
Examiners should be alert to other ethical issues that are not specifically identified on the specification, since these may be creditworthy.	1	Basic The candidate provides a basic explanation of why this is an ethical issue that demonstrates some relevant knowledge and/or understanding but lacks detail and may be muddled. For example, without informed consent, participants don't know what they are doing.
Breaking the guideline can be credited as part of the explanation as to why it is an issue.	0	Flawed or inappropriate The candidate provides an explanation that is flawed or an inappropriate explanation that fails to demonstrate any knowledge or understanding of why it is an ethical issue. For example, explaining how to deal with an issue or merely describing the issue.

1 (b) Describe the findings and conclusions of **one** study of obedience to authority.

(6 marks)

Marking Criteria	Marks	Performance Descriptions
	6	Accurate and reasonably detailed
The most likely study to be offered is Milgram's, but any study of		The candidate provides an accurate and reasonably detailed
obedience is creditworthy (eg Hofling et al; Bickman; Meeus &		description of the findings and conclusions of one study of
Raaijmakers.)		obedience that demonstrates relevant knowledge and
If Zimbardo is offered, both the findings and conclusions must be		understanding. For example, the candidate provides a detailed
explicitly linked to obedience.		account of both findings and conclusions (though not necessarily balanced).
Milgram found: all participants went up to 300 volts and 65% went all	5-4	Less detailed but generally accurate
the way to 450 volts. Only 5 (12.5%) participants stopped at 300		The candidate provides a less detailed but generally accurate
volts. He also found that his participants showed signs of extreme		description of the findings and conclusions of one study of
stress such as sweating, biting fingernails, nervous laughter.		obedience that demonstrates relevant knowledge and/or
He <u>concluded</u> : that given the right circumstances, ordinary people can		understanding. For example, the candidate provides a detailed
be ordered to do things that go against their own morals. He		account of findings, with only a brief mention of conclusions, or a
suggested that evil deeds are committed due to situational factors and		balanced account of both in less detail.
not dispositional factors; that the crimes committed by the Nazis were		Note: If only findings or conclusions are given, maximum mark is 4.
due to the considerable pressure to obey an authority figure and not	3-2	Basic
because Germans were in any way different from other peoples.		The candidate provides a basic description of the findings and
Milgram carried out several variations of his study and		conclusions of one study of obedience that demonstrates some
findings/conclusions from these can all be credited as if they were one study, since it is often difficult to separate the variations.		relevant knowledge and/or understanding, but lacks detail and may
study, since it is often difficult to separate the variations.		be muddled. For example, only a brief account of either findings or conclusions is given, or a very brief account of both.
	1-0	Very brief/flawed or inappropriate
	1-0	For 1 mark, the candidate provides a description of the findings
		and conclusions of one study of obedience which is very
		brief/flawed and demonstrates very little knowledge and/or
		understanding.
		For 0 marks, the candidate provides an inappropriate description
		which fails to demonstrate any knowledge or understanding of one
		study of obedience.

1 (c) 'Social influence research has identified strong pressures to conform in group situations.'

Outline and evaluate research into majority influence.

(18 marks)

AO1 credit should be given for outline description of research into majority influence.AO2 credit should be given for an evaluation of this research.	The evaluation can consider the methodology used in the studies. For example, some studies were laboratory-based (may lack ecological validity, demand characteristics, gender bias – both Asch and Zimbardo only used males).
There are several studies that candidates might outline, but the mos likely ones are those mentioned on the specification: Asch; Perrin & Spencer. Asch carried out a series of experiments investigating the effect a group would have on the behaviour of a naïve participant. He varied the conditions, such as group size, task ambiguity and suppor of a colleague. Perrin & Spencer replicated Asch's experiment in the 1980s. They used different types of participants and found very little evidence of conformity with university students in the UK. Zimbardo's prison simulation study investigated the extent to which participants conformed to social roles. Since the term <i>research</i> includes both studies and theories, any description of relevant theories would be acceptable: for example, ar outline of normative and informational social influence as reasons why people conform.	 Ethical issues such as deception and psychological harm can be considered. One of the main criticisms of Asch's study is that it was a 'child of its time'. The reason for the relatively high level of conformity was due to the time and the place in which the research was carried out (America in the 1950s). 'Positive criticisms' are also acceptable, for example the usefulness of this research.

(c)

Marks	Performance Descriptions	Marks	Performance Descriptions
	AO1: Outline of research into majority influence.		AO2: Evaluation of majority influence research.
6	Accurate and reasonably detailed The candidate provides an accurate and reasonably detailed description of research into majority influence that demonstrates relevant knowledge and understanding. For example, there is a detailed and accurate account of one study into majority influence, or a less detailed account of two or more.	12-10	 Informed commentary Within the time constraints for this part of the question, there is effective use of material to address the question and provide an informed commentary. Effective analysis and evaluation of material. Broad range of issues and/or evidence in reasonable depth, or a narrower range in greater depth. The structure is generally clear and coherent.
5-4	Less detailed but generally accurate The candidate provides a less detailed but generally accurate description of research into majority influence that demonstrates relevant knowledge and/or understanding. For example, the candidate may outline two or more studies of majority influence, but with little detail.	9-7	 Reasonable commentary There is appropriate selection of material to address the question, but this is not always used effectively to produce a reasonable commentary. Reasonable analysis and evaluation of material. A range of issues and/or evidence in limited depth, or a narrower range in greater depth.
3-2	Basic The candidate provides a basic description of research into majority influence that demonstrates some relevant knowledge and/or understanding but lacks detail and may be muddled. For example, the candidate may outline just the procedures of one study of majority influence.	6-4	 Basic commentary The selection and use of material provides only a basic commentary. Basic analysis and evaluation of material. Superficial consideration of a restricted range of issues and/or evidence.
1-0	Very brief/flawed or inappropriate For 1 mark, the candidate provides an outline which is very brief/flawed. For 0 marks, the candidate provides an inappropriate outline that fails to demonstrate any knowledge or understanding of majority influence.	3-0	 Rudimentary/absent or irrelevant commentary The selection and use of material provides only a rudimentary commentary, or commentary is absent or wholly irrelevant. Analysis and evaluation just discernible or absent.

2 (a) Describe the procedures and findings of **one** study of minority influence.

(6 marks)

Marking Criteria	Marks	Performance Descriptions
	6	Accurate and reasonably detailed
The two studies given on the specification are Moscovici et al and		The candidate provides an accurate and reasonably detailed
Nemeth <i>et al</i> . The former is the most likely one to be offered.		description of the procedures and findings of one study of minority
Moscovici's procedures: the participants were all female and were		influence that demonstrates relevant knowledge. For example, the
divided into groups of six. Each group had four naïve participants and		candidate provides a detailed account of both procedures and
two confederates. They were asked to state the colour of slides,		findings (though not necessarily balanced).
which were in fact all blue, but the shades of each slide varied. In the	5-4	Less detailed but generally accurate
consistent condition, the confederates said that the slides were green		The candidate provides a less detailed but generally accurate
all the time, in the inconsistent condition they said that slides were		description of the procedures and findings of one study of minority
green 24 times and that they were blue 12 times.		influence that demonstrates relevant knowledge. For example, the
Findings: in the consistent group, the participants agreed with the		candidate provides a detailed account of procedures, with only a
minority and said that the slides were green on 8.4% of the trials. In		brief mention of findings, or a balanced account of both in less
the inconsistent condition, they agreed with the minority on 1.3% of		detail.
the trials. In the consistent condition, 32% of the participants agreed		Note: If only procedures or findings are given, maximum mark is 4.
with the minority at least once by saying that the slide was green.	3-2	Basic
		The candidate provides a basic description of the procedures or
		findings of one study of minority influence that demonstrates some
		relevant knowledge, but lacks detail and may be muddled. For
		example, only a brief account of either procedures or findings is
		given, or a very brief account of both.
	1-0	Very brief/flawed or inappropriate
		For 1 mark, the candidate provides a description of the procedures
		and findings of one study of minority influence which is very
		brief/flawed and demonstrates very little knowledge.
		For 0 marks, the candidate provides an inappropriate description
		which fails to demonstrate any knowledge of one study of minority
		influence.

2 (b) Explain what is meant by the terms *internal validity* and *external validity*.

(3 marks + 3 marks)

Marking Criteria		Performance Descriptions
Internal validity: the extent to which the findings were due to experimental manipulation rather than some other factor. An experiment would have internal validity if the observed effect could be said to be due to the manipulation of the IV on the DV.	3	Accurate and reasonably detailed The candidate provides an accurate and reasonably detailed explanation of internal/external validity that demonstrates relevant knowledge and understanding. For example, internal validity is whether the findings are really due to the experimenter manipulating the IV. Milgram's experiment can be said to have internal validity, because his participants were very stressed and clearly believed in the situation, so he really was measuring obedience.
External validity: the extent to which the findings can be generalised to settings other than the research setting. This can include population validity (can the findings be generalised to other groups of people?) and	2	Less detailed but generally accurate The candidate provides a less detailed but generally accurate explanation of internal/external validity that demonstrates relevant knowledge and/or understanding. For example, external validity refers to the degree to which findings from research in a laboratory can be applied to the real world.
ecological validity (eg generalised beyond the lab setting). Any psychological research can be used to	1	Basic The candidate provides a basic explanation of internal/external validity that demonstrates some relevant knowledge and/or understanding but lacks detail and may be muddled. For example, external validity is whether the results work in the real world.
illustrate these terms, but it is not essential.	0	Flawed or inappropriate The candidate provides a description, which is flawed, or an inappropriate explanation that fails to demonstrate any knowledge or understanding of the terms. For example, confusing validity with ethical issues.

2 (c) Discuss ethical issues arising from studies of obedience to authority. Refer to at least two studies of obedience in your answer.

(18 marks)

Marking Criteria	
 AO1 for this question is an outline description of ethical issues that arise in studies of obedience. AO2 is a discussion of these ethical issues. Partial performance (AO1) if only one study is referred to. There are numerous ethical issues that candidates may describe: lack of informed consent, deception, psychological and/or physical harm, confidentiality, etc. There are also many studies that could be used eg Milgram, Hofling <i>et al</i>, Bickman, Meeus & Raaijmakers, and Zimbardo. Milgram: deception and thus lack of informed consent, prevention of right to withdraw, psychological harm. Hofling <i>et al</i>: deception and lack of informed consent. Zimbardo: prevention from withdrawing, psychological harm. The AO1 is for a description of the ethical issues. A description of, for example, Milgram's procedures can only be credited in so far as it highlights/illustrates ethical issues; the ethical issue could be embedded in the procedure. 	than simply describing them. This could be done by considering why it is an ethical issue: the value of the research (did the ends justify the means/cost-benefit analysis): whether or not the psychologists dealt with the issues: whether there were any long-term consequences for the participants.Candidates are required to outline ethical issues in two studies, so partial performance operates if they only offer one study in their answer (AO1).Candidates are required to refer to at least two studies so partial performance operates if they only refer to one study in their answer.

(c)

Marks	Performance Descriptions	Marks	Performance Descriptions
	AO1: Outline of the ethical issues.		AO2: Discussion of the ethical issues.
6	Accurate and reasonably detailed The candidate provides an accurate and reasonably detailed outline of some ethical issues arising from studies of obedience that demonstrates knowledge and understanding. For example, deception and informed consent in one study and protection from harm in another.	12-10	 Informed commentary Within the time constraints for this part of the question, there is effective use of material to address the question and provide an informed commentary. Effective analysis and evaluation of material. Broad range of issues and/or evidence in reasonable depth, or a narrower range in greater depth. The structure is generally clear and coherent.
5-4	Less detailed but generally accurate The candidate provides a less detailed but generally accurate outline of ethical issues arising from studies of obedience that demonstrates knowledge and/or understanding. For example, lack of informed consent in one study and right to withdraw in another. If only one study of obedience is referred to, the ethical issues are accurate and reasonably detailed (max 4 marks).	9-7	 Reasonable commentary There is appropriate selection of material to address the question, but this is not always used effectively to produce a reasonable commentary. Reasonable analysis and evaluation of material. A range of issues and/or evidence in limited depth, or a narrower range in greater depth.
3-2	Basic The candidate provides a basic outline of ethical issues arising from studies of obedience that demonstrates some knowledge and/or understanding but lacks detail and may be muddled. For example, lack of informed consent and deception in both studies.	6-4	 Basic commentary The selection and use of material provides only a basic commentary. Basic analysis and evaluation of material. Superficial consideration of a restricted range of issues and/or evidence.
1-0	Very brief/flawed or inappropriate For 1 mark, the candidate provides a very brief/flawed description of some ethical issues arising from studies of obedience that demonstrates very little knowledge or understanding of obedience to authority. For 0 marks, the candidate provides an inappropriate description that fails to demonstrate any knowledge or understanding of obedience to authority.	3-0	 Rudimentary/absent or irrelevant commentary The selection and use of material provides only a rudimentary commentary, or commentary is absent or wholly irrelevant. Analysis and evaluation absent or just discernible.

SECTION B: RESEARCH METHODS

Total for this question: 30 marks

3 Researchers were interested to see what effect rewards have on learning. Twenty laboratory rats were tested on their ability to learn to run through a maze. To run through the maze, each rat had to make a series of turns to reach a reward at the end. Each rat ran the maze on its own. Ten of the rats received reward (a pellet of food) every time they completed the maze. The other ten rats received a reward (a pellet of food) every time they completed the maze.

The researchers counted the number of attempts it needed for each rat to complete the maze without making any mistakes. A high score would indicate that more attempts were needed to learn the maze. The results are shown in **Table 1** on the next page.

	Group 1 Rewarded every time	Group 2 Rewarded every third time
	16	11
	13	9
	8	13
	12	26
	17	15
	17	17
	15	16
	11	10
	21	13
	17	13
Mean	14.70	14.30
Standard Deviation	3.55	4.58

Table 1: Table to show the number of attempts needed to learn the maze

3 (a) (i) The mean was used in **Table 1.** Give **one** other measure of central tendency that could have been used. Justify your answer. (3 marks)

Marking Criteria	Marks	Performance Descriptions for measure of central tendency.
AO3 Median or mode are the other two measures of central tendency that could	1	Appropriate Measure of central tendency is correct.
have been used.		Inappropriate/incorrect Measure of central tendency is inappropriate or incorrect.
A case could be made for the use of either the median or the mode. Median is probably better than the mean in this case because it is not affected by an		
extreme value, eg 8 in Group 1. Mode could be better because it is always an actual value, ie results that were actually obtained, which may not be the case for other measures of central tendency.		Performance Descriptions for justification of measure of central tendency.
	2	Accurate and Detailed The justification is accurate and detailed. For example, the median is not affected by outliers and is therefore safer to use than the mean.
	1	Basic The justification is basic, lacking detail, and may be muddled and/or flawed. For example, the mode is an actual finding.
		Inappropriate/incorrect The justification is inappropriate or is incorrect.

3 (a) (ii) What do the standard deviations tell us about the data in **Table 1**?

(3 marks)

Marking Criteria	Marks	Performance Descriptions for standard deviation.
 AO3 Standard deviation tells us how much variance there is in a set of scores from their mean. It tells us how spread out a set of scores is around the mean; it is a measure of dispersion. In Group 1, the standard deviation is slightly smaller than in Group 2. This suggests that the scores in the first group are more closely clustered around the mean; all these rats needed a similar number of trials to learn the maze. In Group 2, the standard deviation is more spread out, suggesting a greater variation in the number of times it needed for these rats to learn the maze. Could also say that there is only a slight difference between the two SDs, suggesting that the variance of the two groups is quite similar.	3	 Accurate and reasonably detailed The account of standard deviation is both accurate and detailed. For example, it tells us about the variation of the two groups, that there is a greater spread of scores in Group 2, suggesting that these rats had a wider variation in the number of times it took them to learn the maze. Less detailed but generally accurate The two groups differ in the amount the scores are spread around the mean. Group 1 is less spread than Group 2, so shows less variation.
	0	Basic The account of what the standard deviations tell us about the data is basic, lacking detail, and may be muddled and/or flawed. For example, simply stating they show how spread out the data is. Very brief/flawed or inappropriate
	-	The account of standard deviation is incorrect.

3 (b) State the independent variable (IV) and dependent variable (DV) in this study.

(2 marks + 2 marks)

Marking Criteria	Marks	Performance Descriptions for each variable.
A03	2	Accurate and detailed
The IV is the schedule of reinforcement (either a pellet of food consistently or every third trial).		Identification of the variable is accurate, for example, as given in the marking criteria.
	1	Basic
The DV is the number of trials it takes the rat to learn the maze.		For example, IV = food. DV = trials.
	0	Inappropriate/incorrect Identification of the variable is inappropriate, for example, the candidate may identify the method used.

3 (c) Write a non-directional hypothesis for this study.

(2 marks)

Marking Criteria	Marks	Performance Descriptions
A03	2	Accurate and detailed
The schedule of reinforcement given affects the number of trials		Statement of the hypothesis is both accurate and detailed: for example,
needed to learn the maze.		as given in the marking criteria.
	1	Basic
		Statement of the hypothesis is basic, lacking detail and may be
		muddled and/or flawed. For example, food affects learning.
	0	Inappropriate/incorrect
		Statement of the hypothesis is inappropriate: for example, the
		candidate may give the aim of the study; or he/she states that there is
		a relationship between food and learning.

3 (d) Describe **one or more** conclusion(s) that could be drawn from the findings of this experiment.

(3 marks)

Marking Criteria	Marks	Performance Descriptions
A03	3	Accurate and reasonably detailed
Possible conclusions:		The conclusion(s) are accurate and reasonably detailed. For example,
• There is very little difference between the two groups and so		reward does not seem to have any effect on how many trials it takes a
the type of reward does not seem to have an effect on		rat to learn a maze, but the partial reward produces more variation
learning		than the constant reward.
	2	Less detailed but generally accurate
• Could also conclude that as the SDs are quite similar, there		The conclusion(s) are less detailed but generally accurate: for
is little variation between the two groups, so reward		example, one conclusion in detail or two but in less detail.
(constant vs 3 rd time) does not have much effect.	1	Basic
		The conclusion(s) are basic but lack detail and are muddled.
• Among all 20 rats, there is quite a range of trials needed to	0	Very brief/flawed or inappropriate
learn the maze, they could conclude that some rats clearly		The conclusion is incorrect, or the candidate has offered findings
learn much more quickly than others!		instead of conclusions.
• They could conclude from looking at the means that rewards		
every time result in slightly slower learning than rewards less		
often.		
Examiners should be careful to credit conclusions and not findings.		
However, sometimes the findings may be given as a way of		
explaining/informing the conclusions. There is sometimes a fine		
distinction between the two.		

3 (e) (i) This experiment used an independent groups design. Outline **one** advantage and **one** disadvantage of using an independent groups design. (2 marks + 2 marks)

Marking Criteria	Marks	Performance Descriptions for the advantage/disadvantage
AO2	2	Accurate and detailed
Note that the answers do not need to be in context for full		Explanation of the advantage/disadvantage is both accurate and
marks.		detailed. For example, there are no order effects since each
Advantage		'participant' only does one part of the study.
Order effects are not a problem as each participant only	1	Basic
takes part in one condition		Explanation of the advantage/disadvantage is basic, lacking detail and
• The same stimulus material (or in this case, maze) can be		may be muddled and/or flawed. For example, individual differences is
used for all 'participants'		a disadvantage.
 Participants are unlikely to guess the aim/hypothesis. 	0	Inappropriate/incorrect
		Explanation of the advantage/disadvantage is inappropriate: for
Disadvantage		example, the candidate may give an advantage/disadvantage that is
 Individual differences may be a limitation; one group may be more intelligent than the other. (Some rats may learn faster than others!) 		incorrect.
Twice as many participants are needed in this design compared with a repeated measures design.		

(ii) Explain how the disadvantage you outlined in part (e)(i) could be dealt with.

(2 marks)

Marking Criteria	Marks	Performance Descriptions
AO2 The answer to this question must relate to the disadvantage offered in (i). For example, individual differences could have been overcome by randomly allocating the participants to each condition. This way, any participant variables would (it is hoped) be shared	2	Accurate and detailed Explanation of the way in which the disadvantage could be dealt with is accurate and detailed. For example, by randomly allocating the participants to each condition, any differences in their ability should be shared across the conditions.
equally between the two groups. One way of dealing with the disadvantages of this design is to use a	1	Basic Explanation of the way in which the disadvantage could be dealt with is basic, lacking in detail and may be muddled and/or flawed: for example, random allocation of participants.
repeated measures design.	0	Inappropriate/incorrect Explanation of the way in which the disadvantage could be dealt with is inappropriate, or is incorrect.

3 (f) (i) What is meant by the term *reliability*?

(ii) Outline **one** way of assessing reliability.

Marking Criteria	Marks	Performance Descriptions for reliability
A01	1	Appropriate
Reliability refers to whether a measurement, or the findings from a study,		The definition of reliability is correct.
can be repeated if conducted at a later date. It refers to whether something	0	Inappropriate/incorrect
is consistent.		The definition of reliability is inappropriate or incorrect.
One way of assessing reliability is the test-retest method. The same test is given to the same participants at different times. If the test (or measurement) is reliable, there should be a positive correlation between the two sets of scores.		
		Performance Descriptions for assessing reliability
There is no need for condidates to contaxtualize their answers, thus any	2	Accurate and detailed
There is no need for candidates to contextualise their answers, thus any way of assessing reliability can be accepted, for example split-half method, inter-observer reliability etc.		Giving the same participants the same test a few weeks apart and then comparing their answers. If the test is reliable, their answers on both tests should be similar.
	1	Basic
		Do the test again and see if you get similar results.
	0	Inappropriate/incorrect
		The outline of how to improve the reliability of this study is inappropriate or is incorrect.

(2 marks)

(1 mark)

3 (g) This study was a laboratory experiment. Discuss **one** advantage and **one** weakness of using a laboratory experiment.

(3 marks + 3 marks)

Marking Criteria	Marks	Performance Descriptions
A03	3	Accurate and reasonably detailed
Advantages:		For example, one weakness is the fact that participants may try to work
 Can easily be repeated so that reliability can be assessed 		out what is going on and act accordingly and change their behaviour.
 Easier to control the variables 		Because the participants do not behave as they would normally do, the
 Easier to manipulate the IV and see its effect on the DV. 		laboratory experiment might lack validity.
Weaknesses:	2	Less detailed but generally accurate
 Demand characteristics may affect the validity of the study 		For example, one strength is that you can control all the variables and
 High levels of control may reduce the validity 		then see if it is the IV that does affect the DV, and then determine
 Lacks ecological validity/artificial. 		cause and effect.
	1	Basic
		For example, one weakness is that they lack ecological validity.
There is no need to contextualise the answers, but candidates may	0	Very brief/flawed or inappropriate
do so as elaboration.		The strength/weakness is inappropriate or incorrect.

Question	Part	AO1	AO2	AO3
1	(a)	6		
	(b)	6		
	(C)	6	12	
Total for Question 1		18	12	
2	(a)	6		
	(b)	6		
	(c)	6	12	
Total for Question 2		18	12	
3	(a)			6
	(b)			4
	(c)			2
	(d)			3
	(e)		6	
	(f)	3		
	(g)			6
Total for Question 3		3	6	21
QoWC		2		
Total for unit		39	30	21

Assessment Grid