

Examiners' Report June 2018

GCE Psychology 9PS0 01



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#### Introduction

The examination structure provided a range of question types over five sections, with the final extended responses requiring candidates to address issues and debates. Many candidates demonstrated good psychological knowledge and understanding in this examination, and centres have clearly covered the required content in sufficient depth which has benefitted candidates.

Candidates have worked hard throughout this paper, with most candidates making attempts at all questions, which was very positive to see. However, some candidates did not respond to the later essay questions and may benefit for future series in practicing timing.

Strengths were seen in the understanding of the nature versus nurture issue and debate (question 15) in terms of the candidates' understanding of social psychology, however the responses were not as strong when linked to cognitive psychology, where most candidates gave reconstructive memory as nurture but did not engage as strongly with aspects of cognitive psychology that were nature based.

There remains a general area for improvements in the candidate skills of application to the scenarios for the AO2 questions, although this has developed since the 2017 examination; some candidates are giving generic responses that are not applied to the context, for example failing to make the link between schema theory and the scenario of the theft of the bag in a restaurant (question 6).

There is an improvement in candidate understanding of the taxonomy of questions, with many able to meet the demands of questions more consistently. Further development would benefit candidates when responding to 'explain' questions, where often the justification of their point is not fully developed. This was evident particularly in question 3 where a strength was often given but was not expanded upon, and question 11c when a methodological issue was given but again was rarely developed.

Candidate responses to the biological key question were often limited; most candidates seemed to be aware of their key question for society but struggled to make the links between the key question and relevance to society, often giving substantial theory/concepts/research about their key question, but only weakly demonstrating their knowledge and understanding of the relevance of the key question itself.

The remainder of this Examiner Report will focus on each individual question and specific examples with the aim of highlighting areas of good practice and some common errors which can be used to help prepare candidates for future 9PSO/01 examinations.

This is an AO1 question where up to three marks are awarded for describing the procedure of the Rundown Office Block (Experiment 10) variation study. Candidates were often describing Experiment 5, giving generic content that could apply to any of Milgram's variation studies and thus limiting the marks available. Very few links were seen to the explicit procedural points of this variation, such as using a commercial office building; the set up being sparsely furnished; that it was claimed to be conducted by Research Associates of Bridgeport as a private firm conducting research. Where candidates were able to distinguish this variation they usually achieved well.

Milgram carried out some valuable research into obedience, including a number of variation studies.

Describe the procedure of the Rundown Office Block (Experiment 10) variation study.

Participants were taken to a run down office block for the study. They doe took draws with a confederate, who they thought was a participant, participant automatically got the role of the teacher who would 'administer' electric shocks up to 450v to the learner (confederate) with verbal proas such as a mention of a heart condition to test how far the participant would go with administering the shocks shocks would uncrease in 15v per shock and a sample snock of 45% was given to the posticipant before study began.



This candidate achieves two marks. There is no identification of the features of the variation 10 study other than repetition of the wording of the question "Rundown Office". Although the points made are clear, there is no link to the details of this specific study variation.



When giving procedures of variations, such as Milgram, candidates should make it explicit that they are aware of the procedural changes that were implemented in the variation, for example setting up the offices with sparse furniture.

1 Milgram carried out some valuable research into obedience, including a number of variation studies.

Describe the procedure of the Rundown Office Block (Experiment 10) variation study.

Milgram's variation studies were designed to test concordance rates between his original lab experiment and in this case, a run down office block. The reason for this setting was becouse it doesn't have the same well of frestage as the university used in the original study and was key in obtaining results that fest obedience. The providence was the same apart from the fact that it was carried out in a considerably less prestigates setting which Milgram thought Could have changed the levels of obedience.



This candidate achieved 0 marks. The response describes the aims and rationale for the variation study. Stating that the procedure 'was the same' as baseline 5 is not sufficient to demonstrate they understand the procedure of variation 10.



Candidates should focus on the direction of the question, where a procedure is required they should concentrate on those points as aims, results, conclusions are not required or creditable.

# Question 2 (a)

This is an AO2 question where points made by candidates must be applied to the scenario of researching in-group favouritism. Generic answers scored 0 marks, for example 'What is your gender? Male/Female/Prefer not to say' which were not appropriate to the context. Candidates showed a good ability to distinguish between open and closed questions, and most scored full marks for this question.

- 2 Tim and Laura are undertaking a practical investigation using a questionnaire into in-group favouritism at their college.
  - (a) Suggest one open question and one closed question Tim and Laura could use in their questionnaire.

(2)

Open question

How do you think in-group fowartism is shown at this cauge?

Closed question

DO you see you an group as interior



This candidate achieves 2 marks. Both suggested questions relate to the study in the scenario.



Understanding that closed questions have limited response options and being able to give examples of those can help candidates distinguish between open and closed questions when asked to present these in an exam.

# Question 2 (b)

This is an AO2 question and therefore points made by candidates must be applied to the scenario of Tim and Laura investigating in-group favouritism. Most candidates understood the purpose of a pilot study; however some responses were generic and did not give reasons for the pilot study in relation to this particular investigation of in-group favouritism using a questionnaire.

(b) When conducting an investigation using a questionnaire a pilot study can be carried out. A pilot study is a small-scale preliminary version of a study which is carried out before the full-scale version of a study.

Suggest **two** reasons why Tim and Laura should carry out a pilot study before conducting their questionnaire.

(2)

#### Reason 1

To make sure the questions in the questionnaire are fully understandable and not too complex for the public/sample.

#### Reason 2

Allows complications that may arise in the pilot study to be dealt with before full-scale version E.g. minimising distress.



This candidate achieved 1 mark. The mark was awarded for the first reason where application to the scenario was given for the link to a questionnaire being used in the investigation. The second reason is a generic response where there is no link to the context of the investigation being conducted.

This is an AO1 and AO3 question where candidates are required to explain one strength of the study by Sherif et al. (1954/1961). The AO1 mark was awarded for the candidate's identification of a strength of the study and the second mark for AO3 was for the justification of this strength.

Most candidates showed strong understanding of the study and this was pleasing to see, however some candidates gave answers that were not specific to the study and were generic responses that could be applied to 'any' field experiment. Many candidates did not justify the strength they had given, making basic and rote learned statements such as 'so there is ecological validity' without any exemplification.

:	Sherif et al. (1954/1961) conducted The Robbers Cave Experiment.					
	Explain one strength of Sherif et al. (1954/1961).					
	The Children were modered based on age (11-12 years old),					
	religion (Photestant) and athletit ability. This makes the					
	two groups similar to each other and reduces participant ranables					
	so there the participant variables affect the results					
,	less and the negative have more mencal validity.					
	<b>,</b>					



This candidate achieved 2 marks. They were able to identify the strength of matching the boys taking part for AO1 and then developed this for AO3 to show that it is a strength as it reduces the influence of participant variables on the internal validity of the study.

3 Sherif et al. (1954/1961) conducted The Robbers Cave Experiment. Explain one strength of Sherif et al. (1954/1961).

participantis natural en sivannent me researchers weren't there.



This candidate achieves 0 marks. The response is a generic point about natural environments and ecological validity and does not show any understanding of the study conducted by Sherif et al. (1954/1961).



When giving strengths (and weaknesses) of studies, candidates must explicitly show understanding of these points in direct relation to the study they are being asked about giving specific points from the study itself.

Most candidates responded well to this question, attempting to assess the impact of individual differences on obedience. Personality was often stronger than gender in candidate answers, with gender often being general assertions and lacking substance or supporting evidence for the assessments. Some candidates gave good knowledge and understanding in this question, but did not assess whether or not obedience was affected.

For personality, candidates often included Authoritarian Personality and internal/external locus of control, although the latter was sometimes muddled. For gender, stronger candidates attempted to address gender role expectations, but this was often simple statements without development. Use of Milgram's Experiment 8, Sheridan and King (1972) and Burger (2009) was often seen in this response, although many candidates did not use these accurately. Where candidates muddled their responses, they tended to discuss cultural factors such as individualistic and collectivist and had no link to personality and gender. Some candidates also discussed the influences on prejudice, which did not answer the question.

individual differences in personality sine and gender are dispositional jactors, some of which innate e.g. sex but most are shaped through the environment and individual expenences The authoritarian personality states that people who grow up with smit, unfelling parents are more likely to be obedient to higher authority but also more likely to impose authority on those they believe are injeried to them e.g a manager of a workplace would follow instructions given by a CEO but weat the workers below them nowship society generally believes that remailes thould be more opedient than males due to their uploringing and teachings of norms and social values e.g being submissive. milgiams agency theory also introduces the autonomous state in which people are more outgoing and generally take responsibility for their own actions, whilst those in the agentic state of are more submissive and place responsibility of their actions onto higher authority figures. eva Personality factors such as emporthy and culture also affect how obedient someone is-

Adomo's F scale found whether people had authoritarian personality types or not. This mount that people with these types of personalines were more likely to obey orders, but only if they are given by a someone they new as a teginmate authority rigue individuals who are in collectivist cultures, which are cultures where goals of the entire community are valued rather than the individual, are to more in a stricted by Yahyo and Shanab found that 73% of socianians in a stricted by Yahyo and Shanab found that 73% of socianians in a strict obeyed instructions given to them and communities from Jardan are collectivistic the Milgram found that even if participants were empathelic or felt sympathy towards the learner when snocking the Warner, participants communed to snock the learner when they expenend agentic stuft and transferred all responsibility for their actions and the researcher, thus being in an agentic stare:

However, participants who were empathetic were more likely to stituton him a snocking when the learner (confederate) in triligiam's original study complainted of feeling heart pain which means that however our empathetic personality can decrease obedience. Burger 2009 had a mixed sample of males and females yet still found that 70% of participants would committee shocking past 150% which shows that gender did not affect obedience in this case.

in conclusion, factors of personality e: 9 empathy can have an affect on obedience however overall if an individual cour strift their responsibility is another then they will be more likely in be obedient regardless of their personality type and gender.



This candidate achieves 4 marks.

AO1 Level 2 = The response is mostly accurate, however the references to culture are not creditable as there's no link to personality or gender being made.

AO3 Level 2 = There are some links to the impact on obedience of the relevant AO1 points made, but these are often superficial and at times inaccurate.

4 Assess how individual differences (personality and gender) affect obedience.

(8)

Individual differences in personality involve locaus of control are suggested by Ratter Those with an internal locus of control are more likely to take responsibility for their extions, and are less compliant. Those with an external locus of control are more likely to displace their responsibility on to other people, and may mithtalk be more obedient flurger et al measured locus of control, as well as empoting before he replicated Milgramic study of obedience and found thout there was more protosting from those with higher empathy scores and internal locus of control, however this did not necessarily translate in to haver levels of obedience in most cases. This suggests that it may be dependent on the situation an individual is in retor than their locas of control affecting obedience.

Adorno proposed his authoritarian personality whereby those who experienced harsh parenting are more likely to be predient subposition to those above term in class, and are house more fregulated to truse lower transform the fested trusc with higher F-scale, measuring facism and found those with higher F-scale scores had authoritarian personalities. Mithgram used this f-scale in a study where he took 20 must abedient and 20 must rebellious participants and asked them to complete the f-scale and found that the most abedient participants had higher F-scale scores

suggestingthat having an authoritarian personality makeryou
more shedient. However, the f-scale is based on self report
which may have issues in validity, as participantimany
assurer in socially desirable manners, decreasing the validity of
the findings. The F-scale therefore lack internal validity and
an't establish cause and eget.
differences Gender Meson't meanure tested in Milgramin original study
as le believed obedience was a pe mouverain trait that both
male and females would present equally. He found males
should 65.5%, Obedience (administering full 450x)
He was criticised for showing B-bias and so he conducted
Stylies on semales in his variations and for not unlike gender
had no effect on obedience. Similar findings were found
by Burger (2009) in his Milgram replication, suggesting
after has no great on obedience that is destructive.
when as hed to shock a puppy in a study fermales were more
Nesistants
onerally perisobality bood gender may have small effects but
overall they does not necessarily translate to lower obedience.
Personality however does affect obedience as suggested by
Adorps.



This candidate achieves 6 marks.

AO1 Level 3 = There is accurate knowledge, with little confusion and some good understanding of personality and gender.

AO3 Level 3 = Developed assessment and understanding of competing arguments is present.



For Level 4 the links to the effect on obedience could be further advanced, for example the evaluation of F-scale could have demonstrated how this would relate to personality theory explanations of obedience.

# Question 5 (a)

This was an AO2 maths calculation assessing the skill of calculating a mean score; responses were required to one decimal place and both needed to be correct for the mark. The majority of candidates were able to achieve the mark for this question.

5 Mr Robinson has asked geography students and mathematics students to take part in an experiment. He asked both sets of students to learn a list of 20 words. The mathematics students were given an interference task before retrieval of the word list. The geography students did not have an interference task.

Table 1 shows the results of Mr Robinson's experiment.

Participant	Number of words correctly retrieved (out of 20) by mathematics students	Number of words correctly retrieved (out of 20) by geography students		
A	15	9		
В	7	10		
С .	9	5		
D .	14	8		
E .	12	8		
F .	16	5		
G	10	8		
н	9	11		
1 .	9	13		
1 10	15	8		
Mean	11.6.	8.5.		

Table 1

(a) Calculate the mean number of words retrieved by the mathematics and geography students and complete Table 1 with your answers.

You must give your answers to one decimal place.

**SPACE FOR CALCULATIONS** 



This candidate achieves 1 mark for the correct calculations.

# Question 5 (b)

This question is assessing AO2 mathematical understanding and application, where candidates must explain which statistical (inferential) test Mr Robinson would have used to analyse the data. The correct test was a Mann Whitney U test and one mark was awarded for correctly identifying this. Many candidates were able to do so and achieved the mark here.

The second mark was awarded for the reason why this would be used in relation to Mr Robinson's data. Candidates were often able to give statements of why a Mann Whitney U test would be used, but often these were generic and not explaining why it would be used based on the scenario they had been given.

(b) Explain which statistical (inferential) test Mr Robinson would have used to analyse the data.

Mann-Whitney V: This is because it is to a a lest of difference as two different conditions are being compared and it is an experiment. This also The study is also uses independent groups (Maths students v) qeography students). Finally the parricipants all have their aim scores which can be varied, displaying the participants.

(2)



This candidate achieves 2 marks.

The first mark is for the correct statistical test and the second is for a correct justification using independent groups of maths and geography students.

(b)	Explain which statistical (inferential)	test Mr	Robinson	would	have	used to	o analy	se
	the data.							

It is an Independent reasures design with ordinal data so nam-whitney V test



This candidate achieves 1 mark.

A mark is awarded for the correct statistical test, however there is no justification of this choice in relation to the study the candidate has been presented with, therefore the second mark is not awarded.

### Question 5 (c)

This question was assessing AO2 application and AO3 justification of a strength of quantitative data in relation to the study in the scenario given. Many candidates did not always identify the strength for this study and gave generic, rote-learned responses about quantitative data. Where they had identified the strength for this study, the development of this was not always sufficient to achieve the AO3 mark.

(c) Explain **one** strength of Mr Robinson using quantitative data in his experiment.

(2)

An advantage of using quantitative data is that the data can be analyzed statistically and therefore specific conclusions can be drawn due to averages being found which can then be compared to other



This candidate scores 0 marks.

The response is a generic point about quantitative data and does not relate to the scenario context they have been given.



Where a question requires application, the question will direct their response, such as '[...] Mr Robinson' [...] 'in his experiment', and candidates should apply their understanding to the context they are presented with in the scenario.

(c) Explain one strength of Mr Robinson using quantitative data in his experiment.

(2)

Quantitative data is a strength as the data be cause quantitative data on numerical participant achieved than worna



This candidate achieved 2 marks. AO2 identification of the strength of using objective data about the number of words recalled. AO3 justification of objectivity through the point about why numerical data is not open to subjective analysis.

This question was assessing AO2 application of candidates' understanding of schema theory to the scenario of Mo and Akeem witnessing a man steal a bag in a restaurant. Many responses here were generic, where candidates did not use their understanding to engage with why Mo and Akeem may recall the incident differently. Most candidates gave generic descriptions of schema theory and did not achieve significant marks on this question. Errors were seen in some responses where candidates had used an incorrect theory, often referring to a lack of rehearsal to transfer to long term memory.

6 Mo and Akeem witness a man steal a bag in a restaurant.

Using schema theory, suggest why Mo and Akeem may recall the scene in the restaurant differently.

Schema Sa Jorm of memory
reconstruction & possible displacement
as they way have each for localedon
different elements or events within
different elements or events within the event. Reconstructive memory can
diller as they may also remember
claments y a different event along
Side & Merchare inoin the two todeller
giving different answers to the
giving différent answers toble same scene.



This candidate scores 0 marks.

Response is generic and does not explain why Mo and Akeem recall the scene in the restaurant differently.



Where candidates are asked to relate their responses to a stimulus, the application of understanding should have a clear link to the scenario.

6 Mo and Akeem witness a man steal a bag in a restaurant.

Using schema theory, suggest why Mo and Akeem may recall the scene in the restaurant differently.

As schemas are parcels of information which are subjective and alexandent on inclinational experiences, Me and Mkeem reall the may have witnessed scene differently due to Heir aun individual experiences impacting their ochemas. For example, Mo's schemas may be that the man Orde an empty bag. In the restaurant while Abeam's otherway made him mean that he recalls the man stealing a bag with items inside it. This may be because Abean when Akeem thinks of a bag ore of ea money, pursue pencil case, and more objects in the bag while Man Schema may not associate objects in the bag while Man Schema may not associate objects with the bag; being the man the more objects in the bag; being the man the more objects in the bag; being the more of the man recall the scene of ferently.



This candidate achieves 3 marks.

The understanding is embedded in the first part of the answer; however it is generic and does not achieve a mark at that point.

There are three creditable points. One is for Akeem's schema about items inside a bag. A second is what Akeem's schema of a bag is. The third mark is about Mo's different schema of a bag not having items.

Candidates were required to evaluate the working memory model (Baddeley and Hitch, 1974), and many responded to this question positively, giving good evaluation and demonstrating strong understanding of the model and supporting evidence for and against it. Where candidates struggled it was often with the AO3 skills, giving underdeveloped exemplification and points that were not always well connected to the knowledge and understanding that they had demonstrated.

The warking memory model (WMM) is a model of memory which suggests there are multiple parts of the short tern memory (STM) including the central executive, phonological loop, visual paral Sketchpad and the episodic buffer. The warm build on from the multi-store model (MSM) of memory as it explains the STM in parts and develops a more olerailed explanation for memory. In addition to this strength, the wimm is this developing over time instead of being a Static theory, this clevelopment is evident through the addition of the episodic layer, as Baddeley and Hitch suggested the central executive couldn't process memories and control the functions that fast something needed to be in the middle. This adds validity to their theory as it suggests change over time in knowledge. However, while the WMM shows the functions of STM it fault to explain the long term memory (LTM) and what it consists of other than just suggesting it has an unlimited capacity. In addition to this limitation, it is hard to tell the parts of the STM apart. For example, the visuospatics Sketchpad and the phonological loop me closely linked at they both we the sense. Even furthe with the thic parts of the phonological loop: the phonological loop and the articulatory store, which are hard to distinguish solidly. On the other hand, Baddeley pravided supporting evidence of the stores being

conducting an experiment of driving and posible do because the music was in the phonological loop, being the articulatory store and driving from the the idea of seperate stores.



This candidate achieves 5 marks.

AO1 Level 3 - The response shows accurate understanding of working memory model with clear points.

AO3 Level 2 - There are some superficial evaluation points but they are under-developed and achieve level 2.

This question was assessing AO1 knowledge and understanding of the process of synaptic transmission. Many of the responses to this question were quite muddled, confusing the terminology and process. Common errors were seen in referring to neurons as neurotransmitters, neurotransmitters travelling down axons, and confusing post-synaptic and pre-synaptic.

#### 8 Describe the process of synaptic transmission.

brain is morth up has a notwark of called An action potentional nowons sent along axon until it reaches the the axon turninal-AM Neurotransmitters which synaptic gap neurotransmitters dentrites have now electrical impulse is sent along neurone. (Total for Question 8 = 3 marks)



This candidate achieved 3 marks.
There are more than three accurate points given in the response and the candidate achieves full marks here.

9a

This question was assessing AO2 mathematical skills in calculating a Spearman's rank correlation coefficient for Rafiq's study. Candidates generally achieved well on this question, with many accessing four marks. Where candidates failed to achieve the full marks available they had often given the answer without the minus or had missed the step in the formula of subtracting from 1 in the formula. Nonetheless, a significant improvement from 2017 was seen in candidates' ability to calculate mathematics in this question.

9b

This question was assessing AO2 mathematical skills and AO3 justification of whether the research hypothesis in the scenario should be accepted. Candidates were usually able to correctly judge the calculated value and critical value, but many failed to justify whether the hypothesis of the study should be accepted, often giving a generic answer that did not link to the scenario.

- 9 Rafiq carried out a correlational study to investigate whether there was a relationship between age and number of hours of sleep per night.
  - (a) Complete Table 2 and calculate the Spearman's rank correlation coefficient for Rafiq's study.

(4)

Age	Rank 1	Number of hours sleep	Rank 2	d	d²
17	2.5	10	6	- 3.5	12.25
17	2.5	11	7	-4.3	26.25
20	4	6	2.5	1 · 3	2.25
24	6	7	4	2	4
21	5	4	1	ц	16
16	1	9	5	-4	16
40	7	6	2.5	4.5	2 0 . 25
				Total:	91

Table 2

#### **SPACE FOR CALCULATIONS**

$$1 - \frac{6 \times 91}{7(49-1)} = \frac{-5}{8}$$

6.625 Spearman's rank correlation coefficient.....

(b) Rafig used a non-directional (two-tailed) hypothesis.

Explain whether Rafiq's data were significant at p<0.05 and if the research hypothesis should be accepted.

(2)

The calculated eva value (0.625) is come then
the contral value of (0.786 at pc0.05 for
a two tailed test) which therefore means
that there is no significance and the
null hypothesis is accepted:



This candidate achieves 3 marks for part a) as the calculated score was given without the minus. They achieve 1 mark for part b) for the calculated and critical value with the correct relationship, however there is no second mark as the candidate does not relate their decision to whether the hypothesis about age and number of hours slept should be accepted.

This was a discuss AO1 knowledge and understanding and AO2 application of theory, concepts and/or research to the key question of relevance to society from biological psychology. Many candidates struggled to present their AO1 for the key question, often not engaging with content such as how the key question is relevant for today's society, how the key question is likely to affect individuals in society or how the key question is likely to affect society as a whole. This limited a number of responses to lower marks. The AO2 use of theory, concepts and/or research was stronger, with a range of theories from the specification content used to explain the key question.

A number of centres have selected key questions that are holistic over various topics, for example in relation to Anorexia Nervosa, Schizophrenia, or Alzheimer's/dementia. This is perfectly acceptable practice and has worked very well in a number of cases where candidates responded using these key questions and linking very clearly to the biological content; however a number of candidates did confuse topics and gave the incorrect explanations from the wrong topic area. Centres taking this approach may wish to ensure the candidates spend time differentiating between key questions that are used in more than one topic area.

Common key questions seen included;

- How effective is drug therapy for treating addiction? This was generally well answered, with candidates able to distinguish between AO1 and AO2, giving relevant information about the impact of drug addiction on individuals and society and linking this well to AO2 in order to explain why addiction occurs and/or how to treat addiction using biological concepts.
- What are the implications for society if aggression is found to be nature and not nurture? This was generally not well answered, with candidates often debating aggression using nature versus nurture for AO2 content, but not sufficiently addressing AO1 to show the implications for society or what the key question was aiming to address.

The key question is the what are the implications for saigty if aggresion is due to nature and not nuture. This Dure has developed from the situation which invoked Lui Sierres who hit another player displayed acts of aggression by letting another player. As this was the third Fine he had done so, many people have argued whether his aggression is innate and inhented or not. som Bidogical psychology can explain his behaviour using the explanations of hormores and lorain Ameture. It The harmone of testasterne is preve prominent in males and this hommer develops during prograncy where total awareness and more significantly, competitive aggression. This relates to Summer who bit the playe; he may have a high level of tests steere which results in the competitive aggression. Edwards of at in Edward et al support this as when he injected carrated rate with took Henry Le found that the note then displayed act of aggression. Brain Amoture car also lead to oggression. Surver may have a more prominant anyodala which is the bowin responsible for emdian and apprenin Additionally his pre-partal cortex may be damaged thus resulting in aggression. The is because the fortal The deals with decision

man aswell, supposed by Kaine et



This candidate achieved 4 marks. AO1 Level 1 - There is only one sentence about 'Luis Suarez' which is very isolated understanding of the key question about implications for society, there is no further link to relevance of the question in society, impact on society or individuals. AO2 Level 3 - There is a grasp of competing arguments and some application of theory/concepts/research, most are relevant but lack the depth and development required to meet level 4.

# Question 11 (a)

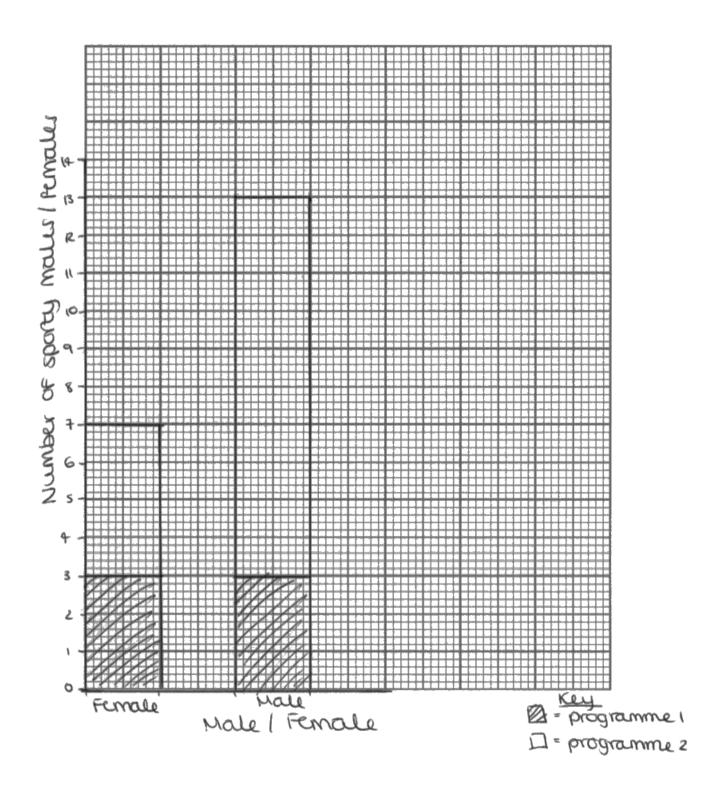
This question required candidates to draw a bar chart to represent the data for sporty females and males from Table 3. Credit was given for the title, plotting of bars and labelling of the axis. Candidates often achieved full marks for this question. However, common errors were seen where candidates plotted all the data from Table 3 or where they did not plot discrete bars. There were some candidates who did not give a full title in relation to showing the data was from television programmes.

(a) Draw a bar chart to show the total number of sporty males and sporty females shown in **Table 3**.

(3)

Title

A graph to show the number of sporty male and females presented in 2 kids TV shaw





This candidate achieved 3 marks.

The title, labels and plotting each achieved a mark. The key for the bars by programme was not necessary for the mark, the candidate accesses the plotting mark as the totals (7 and 13) are correct.

## Question 11 (b)

This question was assessing AO2 understanding about what can be concluded for the study undertaken in the stimulus material, with AO3 justification of that conclusion drawing from the data presented in the scenario. Most candidates struggled to draw a conclusion in relation to the scenario, often not making any link to gender portrayal on television, instead they often gave a description of the results in the table and achieved 0 marks.

(2)

(b) Explain one conclusion that could be drawn from Mandeep and Priya's investigation.

Programme I was very gender neutral when it came to showing sporty people. The programme show 3 sporty males and 3 sporty remales. However programme 2 was a lot more geared towards males being sporty. There were 10 sporty males, compared to only 4 sporty females.



This candidate has described the results of the study and achieves 0 marks.

(b) Explain one conclusion that could be drawn from Mandeep and Priya's investigation.

Then are a higher number of women who are portrayed as 'envertional' (7+9=16) than the number of males (2+1=3). It can be conducted here the females are more livery to be partrayed as enerional in companion to men



This candidate achieved 2 marks.

The conclusion that females are portrayed as more emotional as men is supported by relevant links to the data.

## Question 11 (c)

Candidates struggled to give a well-developed response to this question. Most were able to achieve the AO2 application mark through identification of a methodological issue with the content analysis undertaken in the scenario, but the AO3 justification of this issue was elusive. Most candidates gave brief, rote-learned statements that did not develop their answer.

(2)

(c) Explain one methodological issue there may have been with Mandeep and Priya's content analysis.

methodological issue of that & a content analysis



This candidate achieved 2 marks.

They have identified an issue in relation to the scenario and justified this in terms of representativeness of all media.

# **Question 12**

Clowns

This was an AO2 application question and the responses were required to be applied to Jodi and her fear of clowns. Candidates approached this question well, and in this case a range of good application was seen in answers. Few candidates did not achieve marks here, and where they did not do well it was often due to confusion over what was the unconditioned stimulus and neutral stimulus.

12 Jodi attended a number of be parties there was a clown whe of clowns.		the was younger. At all of the ch scared Jodi, Jodi is now fearful
Using your knowledge of class of clowns.	ssical conditioning, ex	plain how Jodi developed a fear
Jodie had an u	acconditioned resp	lonce of fear to a balloon
	= and had no n	elponie until it was pared with
the unconditioned stin	nulus of the )	palloon papping which led to the
		then associated the unconditioned
cen showful at ballow	bushing to	the clown, which becomes a
		ne association, cerulling in the
		the stimulus.
	***************************************	
		(Total for Question 12 = 4 marks)
1.05		(
UCS		UR
bursting balloom		fear
11/5 + 115		UR
UCS + NS		fear
burshing balloon + clowns		1 000
CS	<b>─</b>	CR

fear



This candidate achieved 4 marks. Unconditioned response of fear to a balloon bursting is creditable, the neutral stimulus has been explained as the clown, the process of associating the balloon bang with the clown is clear, and how this becomes a conditioned stimulus achieved a final mark.

### **Question 13**

As a methodology question, candidates often struggled to achieve well on this question. There was often limited or inaccurate knowledge and understanding of the observational method, with the most confusion seen in the differences between overt and covert observation. Addressing the AO3 development about how useful this method is when researching human behaviour was often difficult for candidates to achieve. Some candidates were able to include research examples to demonstrate the usefulness of observational methods.

Common misconceptions included errors such as a non-participant and/or naturalistic observation being synonymous with covert and that participant and/or structured is synonymous with overt; and also that overt is just 'being visible' and that covert is just being 'hidden from view'.

13 When studying learning theories you will have covered the observational research participant, structured method for human research. cover, overt

Evaluate the usefulness of observational methods for studying human behaviour.

401 (8) 403

There are many types of observations. Structured observation is when is controlled and the specific behaviour whether the behaviour is recorded caterally of to in intervals or valio is great elevened. This is useful as it allows of the study researchen to be more reliable. Bandura, for example, week told the researchen that they need to record agressive all every runute. I his allows for standarised procedure to be established which is useful for making esp observations rare reliable

In addition, there is participant observation. This means that the researcher is part of the partiagants and observes their behaviour, often recording everything after the event This is useful in research as it allows for The researcher to opin depper insight into the behaviour of participants and However the results of this type of observation can pecone use less useful if the researcher

becomes subjective as the observation looses reliability

tuthermore, there are two types of participant observation, covert and observations are more useful in that participants do not know the the researcher so they won't show demand characteristics. This is useful when observing natural behaviour such as human interactions and have they learn behaviour Also, this makes research valid meaning that they are useful when explaining ex every-day behaviour compared to \$ lab experients.

Overall, observations are very use study na human behaviour



This candidate achieved 5 marks. AO1 Level 2 - Mostly accurate knowledge and understanding is shown with a range of observational methodology content. AO3 Level 3 - Mostly coherent reasoning with a grasp of competing arguments and some use of example evidence to support their evaluation.



For higher marks a candidate should engage with the evaluation in terms of usefulness more coherently along with presenting more accurate knowledge and understanding of the methodology.

#### **Question 14**

Candidates were not always able to show understanding of practical issues, and these issues were then not always well supported with relevant application to learning and/or biological psychology. Many candidates gave an 'ethical issues' response rather than a practical issues response, and whilst ethics can be a practical issue, in that it can limit the nature of the research, most ethical considerations were not usually applied to the practicalities of research. It is worth noting that errors were often seen in those answers in regard to issues of consent in Brendgen, Bandura, and Watson & Rayner where the children not giving consent was raised, which is inaccurate as the parents would give consent here.

Many answers focused on using non-human participants, generalisability, reliability and validity as AO1 understanding of a practical issue; this was not always well presented as a discussion of the practical issue of how these are achieved or not achieved. Few responses included other practical issues such as time; cost; resources/apparatus (although this was seen occasionally about the use of brain scanning techniques in biological psychology); sampling technique; research/experimental design choices; or methodology selection.

For AO2 application to learning theory and biological psychology some examples were seen of appropriate research methodology and appropriate examples of studies; many were used to highlight the practical issue given for AO1. The most common practical issues used included the use of animal research and brain scanning techniques.

14 Discuss the practical issues faced by psychologists when designing and implementing research in learning theories and biological psychology.

(8)

There are three way issues faced by psychologists when designing and implementing research; the reliability, validity and generalisability of the research. Reliability refers to whether the study can be replicated to produce constitent results. He Globag is cess chan issue in biological psychology, which often your uses brain scanning techniques (c.g. CAT scans, PET scens and flike scours when conducting research. Brain scanning techniques are highly scientific and objective, is they standardised procedures; as a result, this method is highly reliable. Brain sconning techniques are bravever Often invalid es they cannot display the results of real-life believiour. Validity refers to the whether beliaviour is a reflection of reat life (neutral). In Reine et al (1997), NGRIS were brain scanned inorder to assess whether tacyt their aggression was a result of abnormalities in brain functioning. This was an moved way of assessing behaviour as the NGRIS were not experiencing on aggression provoking situation at the time of the scan.

The learning theories approach, on the other hand,

experiences a third issue: generalisability. Generalisability refers to whether the findings of a study are useful when discussing universal behaviour, taking con into consideration the context of the vescord. This is an issue in the learning treates because mis approach often uses animal research. For example, Parlor (1927) used dogs to display how a stimulus (metranome) frest previously had no relation to a reflex response (salivation) could be paired repeatedly to produce an association between a conditioned ctimulus and an uncondition stimulus (food) resulting in a conditioned asponse. This study how united generalisability as dogs have significant biological differences from humans so the beliaviour is difficult to draw generalisable canelyston from. This issue is particularly problematic when a treary is based off research (such as the case of classical carolitioning being built upon Parer's study) as it is attempting to creato homothetic Cows from an ingeneralizable and innepresentative study.



This candidate achieved 6 marks.

AO1 Level 3 - There is strong, accurate knowledge and understanding of practical issues which are at the top of level 3.

AO2 Level 3 - Relevant application of learning theory and biological psychology, grasping how the issue impacts on these two areas.

#### **Question 15**

This was a 'To what extent?' AO1/AO3 question. Candidates often gave some AO1 understanding from social and cognitive in the form of examples of where nurture and nature can be evident, but with little engagement with the question requirements to address the extent to which each approach draws on nurture and nature. Where candidates did attempt to engage with the debate of 'to what extent' they were largely giving points to show examples of where nurture is or is not considered as a feature in social and cognitive psychology, but this was largely knowledge and understanding. Candidates were rarely using evidence to back up their responses, and as such the AO3 within the responses seen was not strong.

Many presented 'two essays', one for each area of psychology, but they did not tend to synthesise these to judge the extent to which social and cognitive psychology draw on nurture. Some candidates muddled their content and gave responses using social learning theory for social psychology, and some were confusing biological psychology with cognitive psychology.

15 To what extent dosocial psychology and cognitive psychology consider human behaviour to be determined by nurture? and thoughts As Nurture is the view short behaviouris yearn + through the environment, and is not biologically att determined, which is nature view. Thus can include learing Anrough your own experiences of or that of others experiences. In social psychology, Adorno suggests their the authoration personality is developed when an includuous is raised by smict, non-loving parents. This is the an environmental role played by the parents. Thur results \* inclinated being mere prejudice to those of a 'lower status' and projecting orger caro others. This suggests that an authoriteron personally is due to nurine, Social impact theory Staves the swength, numediacy and number Locat increases the interes soci force and influence on the target becomes This suggests that obedience and group influence con be increased changes in the environment, when is nume Milgram suggests their we are absolut + due to so evolution which is name. The

Suys in the enduhancy past, people at the faction of the

hierarchy ferland by instruments of these arothe tens of the hierarchy, hence creating & social order and a cohesive ever community. This suggest means that we are innocitely obedience due to evolution, and & the environment plays no role. But, this council expirem why individuals don't follow the law and commit crimes. Burtlett's recenture schema theory shalls that memory is not like a tape recover and so there are some elements of a memory russing. He suggests we his in these gaps in our mency using schema's, which are a set of mutal representation bouilt sup through experiences. We are have different experiences as we all we different , reperate lives and so our schema's are determined by an environment, which is nurtre. So, when we act in a certain way are to our schema's use its due to nurhre, e.g Bartlett tand that people used thur am curtival Schema's us when recalling the War of the allosts Skry e-q by changing a cance to a boat. Tulving's episodic mency states that our environent helps us encode au memori and act as context caes when recalling a Minoy which is Menthre as we all use distorate Contexe cues. However the MSM, states that

we all innaising have a sensory over, STM and UTM,
and the ability to make hences and store
them as it is part of the brain, when
is nature. Similarity, Bartlett States
that every body is capable of mereing
a schema as it is the mate, only the
thing influenced by nume is what
the schema is. Turving found that there
was increased blood flow to the frontal lose when tunkas
et episocuic memores. Turs oncus that the brain
is invoved in our memores and beneurar, suggesting
that nature and plays a role in our our
benaniar
berowia.
In concessor, both social ond congine
psychology have elevents of nature and
housh's view of human behaviour,



This candidate achieved 10 marks. AO1 Level 4 - Thorough, accurate content, although some points could be more comprehensive for the top of level 4. AO3 Level 4 - Well developed and logical competing arguments which are balanced. Does not fully judge "The extent" thus not top of level 4.

#### **Paper Summary**

#### RECOMMENDATIONS

- Based on their performance on this paper, candidates are offered the following advice:
- Some candidates may benefit from practising their timing and balance of content in responses. Many candidates did not appear to draw on the question size to aid in their examination timing, giving more detail than required in short-answer questions.
- The understanding and evaluation skills for research methodology were not as strong as seen in the theory or study questions. Candidates should review their methodology components to the depth they have done for theory and studies.
- Candidates should clearly apply their understanding of psychology to the context in a given scenario, they should not just give a name or single word as this is insufficient as an application skill.
- Generic points should be avoided, candidates should be able to give specific responses that are clearly linked to the question content and taxonomy, for example when giving a strength of a study, it should be explicit how the point made relates to the study.
- Where candidates are expanding their points, the use of evidence and supporting/contesting concepts could aid them in exemplifying their knowledge and understanding as appropriate.
- Candidates should consider their key question of relevance to society and have a clear focus about how or why this key question is of relevance to society.
- Candidates conduct mathematical calculations well, however they are less able to rationalise the choices made in the mathematical decision making processes and would benefit from a fuller understanding of the statistical decision making process.

# **Grade Boundaries**

Grade boundaries for this, and all other papers, can be found on the website on this link:

http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx