



# Examiners' Report June 2016

# GCE Psychology 8PS0 01





### **Edexcel and BTEC Qualifications**

Edexcel and BTEC qualifications come from Pearson, the UK's largest awarding body. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information visit our qualifications websites at <u>www.edexcel.com</u> or <u>www.btec.co.uk</u>.

Alternatively, you can get in touch with us using the details on our contact us page at <u>www.edexcel.com/contactus</u>.



#### Giving you insight to inform next steps

ResultsPlus is Pearson's free online service giving instant and detailed analysis of your students' exam results.

- See students' scores for every exam question.
- Understand how your students' performance compares with class and national averages.
- Identify potential topics, skills and types of question where students may need to develop their learning further.

For more information on ResultsPlus, or to log in, visit <u>www.edexcel.com/resultsplus</u>. Your exams officer will be able to set up your ResultsPlus account in minutes via Edexcel Online.

#### Pearson: helping people progress, everywhere

Pearson aspires to be the world's leading learning company. Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for our commitment to high standards and raising achievement through innovation in education. Find out more about how we can help you and your students at: www.pearson.com/uk.

June 2016

Publications Code 8PS0\_01\_1606\_ER

All the material in this publication is copyright © Pearson Education Ltd 2016

## Introduction

As the first examination of the new linear format GCE AS Psychology. The examination structure provided a range of question types over two main sections, social psychology and cognitive psychology, with a final extended response requiring candidates to address a theme that occurs in both social and cognitive psychology. 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 very few unanswered questions being seen and most candidates making attempts at all questions, which was very positive to see. Strengths were seen in the understanding of obedience and Milgram, along with the procedure of contemporary studies, where some candidates have really excelled. There was a general weakness in giving strengths and weaknesses of the working memory model, the social practical and writing a hypothesis. The remaining areas of development often relate to candidate skills and application.

Candidates did struggle with the structure of their response content, and the assessment objective requirements throughout the paper. Equally, many candidates appeared unaware of the differences in the taxonomy of questions, and did not differentiate their responses to answer the question being asked. Candidate performance overall was mixed. Some candidates were able to use their knowledge to achieve good marks by responding to the questions accurately throughout the paper. Other candidates have performed less well as a result of not fully understanding the requirements of question types and as a result limited and generic responses have been provided in these cases, this is especially evident in evaluations of studies.

One of the main areas for development noted following this examination is the candidate misconception of assessment taxonomy words. Many candidates have struggle to achieve high levels on all the extended open response questions of of 8 marks and above as they tended to provide generic descriptions that were often unconnected to their evaluative points, rather than developed chains of reasoning underpinned with AO1 knowledge and understanding points as required in the level mark bands. Whilst many of the detailed descriptions seen demonstrated that candidates have worked hard on their studies and understand these, which is really positive, this structure often led to imbalanced responses, where candidates struggled to develop chains of reasoning throughout their answer. Many used extra paper to complete these essays as a result of the detail provided when giving generic information, and it is quite likely that candidates timing in the exam would have been affected by doing so. Most candidates have been limited to low level mark bands as they have not provided coherent reasoning as a result of poor essay structures. In addition, very few candidates made conclusions, either throughout or at the end of their responses, again limiting their overall level.

When giving extended open responses, candidates should be aware of the question taxonomy, 'evaluate' and 'assess', for example, are different skills, but many candidates on question 5 did not fully read the question and simply evaluated the ethical issues of Milgram's work.

A final comment is that a number of generic points were given when evaluating studies, and these had no underpinning knowledge of the study. When evaluating a study, candidates should be reminded that they must be specific in their evaluations and not give pre-learned points that have no explicit connection to the study itself. Some candidates presented identical generic points for question 3 and question 8(c), which are not always creditable without knowledge and understanding of the study.

Centres are directed to the levels based mark bands and the exemplar responses provided on the website that give indications of how candidates can structure extended open responses.

However, many candidates demonstrated a good understanding of their studies, and although this resulted in excessive content in questions 3, 5 and 8(c), it did benefit them in

question 7 where they had to give the procedure of a study for 5 marks. This was generally very well answered and candidates can be commended on their understanding of the procedure for their contemporary study. Performance was overall very good on this question and many candidates presented strong, detailed responses here.

A second reflection, evident from a number of responses, is that candidates are not applying their knowledge and understanding for AO2 marks when directed to explain a concept in a stimulus context. At AS Level there is a specification requirement for 30-35% of the examination to assess skills of application of knowledge and understanding to scientific ideas, processes, techniques and procedures. Candidates have particularly struggled with this skill, giving generic responses. This was especially evident in questions 2(b), 6(b) and 9. Application requires the candidate to make a clear link to the behaviour or scenario in the stimulus and explain that particular context, therefore the use of a name alone does not meet the criteria for application. Some candidates were hindered in question 9 as a result of this, and some good evaluations of quantitative and qualitative data were seen without application to the stimulus and how each would be appropriate or not for the context given. Overall, poor application in responses where this is required has limited some candidates.

Finally, responses in relation to the candidate practical were very mixed. Some candidates discussed an incorrect practical rather than the social practical using questionnaires, evident through references to interviews, experiments and observations. Candidates also gave generic and limited responses to improvements, not clarifying how or why this would improve their own practical, but giving vague ideas and concepts. Centres would benefit from reminding candidates that their practical can be assessed in their examinations and that they should be able to describe and evaluate all the processes involved in their practical and to ensure they are clear when discussing their practical work in examination responses. There were some very interesting topics selected for the social practical and some centres have very clearly made the most of the opportunity for candidates to engage in psychological research of their own, this was really positive to see. Practical work should be ethical, and it is worth reminding candidates that the research they conduct must meet ethical guidelines.

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 8PS0/01 examinations.

### Question 1

Overall candidate performance on this question was very good. Most candidates were able to define 'agentic state' and demonstrated their understanding well.

This question is an AO1 knowledge and understanding question, whereby candidates can use a combination of features of agentic state to develop a full definition.

Commonly seen content included to blindly follow orders; displace responsibility to authority figure; give up free will; experience moral strain against conscience. A number of candidates used accurate examples, often referring to Milgram's participants following orders to electrocute *knowing* it was harmful and *not wanting to*, however some examples given simply stated the results from Milgram's studies, these unfortunately did not add to the definitions and were not always creditable.

A common error seen in a number of responses was reference to 'when you act as an agent' which is insufficient for a definition as it does little more than reword the question. Additionally, there was insufficient emphasis in some responses that following orders in an agentic state is more than simply 'following instructions', there needs to be a clearer connection to the theory.

Centres should remind candidates that they should provide developed responses rather than bullet points or single sentences to demonstrate their understanding of a concept.

#### SECTION A: SOCIAL PSYCHOLOGY

#### **Answer ALL questions.**

- 1 Define the concept of 'agentic state' as part of agency theory.
- In the agentic state, we act as agents of others, mindlessly,
- accepting orders from someone who has a higher authority.
- In this State of mind, we let the person with authority to
- take full responsibility and give up our free will.



This response gives a full definition of 'agentic state' using accurate terminology and achieved 2 marks.

### Question 2 (a)

Candidate performance on this question was mostly good. Some candidates were able to give two accurate reasons for David's behaviour using social impact theory, showing good application for AO2 in their responses.

A common focus was the teacher's strength of source and proximity of teacher to David. Most common errors seen on this question were references to agency theory and social identity theory rather than social impact theory. It was evident that some candidates were unclear of the distinction between authority figure and strength of source, and as a result their responses were often poorly applied or inaccurate.

- 2 David and Sarah were using their mobile telephones during a lesson. Their teacher asked them to put the mobile telephones away. David immediately put his in his bag, but Sarah refused.
  - (a) Using your knowledge of social impact theory, identify **two** reasons why David followed the teacher's instructions.

The strength of the source is powerful as the teacher is an authoritative figure so this may to be obedient. Furthermore, the v having the teacher in som as him giving direct orders May be another reason

(2)



This candidate has given two very well applied reasons why David followed the teachers' instructions. The two reasons are clear, and for the AO2 application marks the candidate has made accurate and appropriate reference to the teacher and the context. This is a well answered response achieving 2 marks.



Where questions require application, the question indicates this clearly. Candidates should always link their responses back to the scenario to achieve the marks. These applications should show understanding through the application, so just using a name is not sufficient as application of knowledge.

### Question 2 (b)

Overall, few candidates were able to apply their understanding of factors affecting obedience to the context of Sarah and not following the teacher instructions to put her mobile telephone away.

Often candidates gave generic definitions as a factor, without the application. Reference to 'Sarah' is insufficient for application marks here, candidates were required to make the connections between a factor affecting obedience and Sarah's behaviour of not obeying the teacher instruction. Candidates would benefit from developing their skills of using a theory to explain a stimulus.

There were a number of common errors evident throughout this question, including candidates being unsure of the difference between internal and external locus of control, and also suggesting authoritarian personalities are less obedient rather than more obedient. Many candidates referred to 'individual differences' as their explanation, however they need to be more specific and specify a particular individual difference in relation to Sarah's behaviour.

(b) Using your knowledge of obedience, explain one factor that may account for Sarah's refusal to put her mobile telephone away. ST1 (2)agency theory someone in an autonomous state Sarah was in the autonomous state IP. to obey. is less would accept the responsibility be loss likely to the teacher so kept it out. (Total for Question 2 = 4 marks) Blind obedience Agent La centro bron ) Dispert **Examiner Comments** This candidate has accurately and clearly explained Sarah's behaviour in relation to autonomous state. They have made the connection between the features of autonomy and the actions that Sarah took in the scenario. This is a well-structured application and achieved 2 marks.

### Question 3

This question is an extended open response which is targeting a balance between AO1 and AO3 skills and is assessed using the level mark bands for 'evaluate'. Candidates were required to evaluate the study by Sherif et al (1954/1961) drawing on their underpinning knowledge of the study and using evaluative skills to provide a balanced evaluation, and drawing to an informed conclusion from their evaluative points.

Many candidates provided lengthy descriptions of the study at the start of their response, giving details about aims, procedure, results and conclusions - and while their knowledge was generally very good here, it was content that was subsequently not relevant to the evaluation that followed. As a direct result of lengthy descriptions, a large number of candidates often struggled to begin their evaluations until the second page, leaving reduced time and space to fully answer the question. A 'describe and evaluate' essay structure would often struggle to meet the higher levels criteria for 'logical chains of reasoning' and this has hindered a number of candidates.

On this question many candidates gave generic AO3 material, such as 'field experiments have good ecological validity' without any form of development or underpinning AO1 knowledge from Sherif et al's (1954/1961) study itself. As a result, many of the evaluations seen were under developed and could relate to any given study. The more able responses had clarity within their evaluative points, such as identifying that the study has high ecological validity as a result of being conducted in a summer camp which was a natural environment for the boys. Few candidates made balanced and informed conclusions in their responses and limited themselves to lower mark bands.

Some candidates who were able to give balanced evaluations and make conclusions about the study achieved very well, and it was pleasing to see a number of candidates were able to draw their conclusions effectively from the evaluations they had provided. Some candidates did not provide any form of conclusion, which was also evident in responses where they had good knowledge and evaluation points, yet did not draw their discussions together either throughout their response or at the end. 3 Sherif et al. (1954/1961) conducted The Robbers Cave Experiment to investigate intergroup conflict and cooperation.

Evaluate The Robbers Cave Experiment conducted by Sherif et al (1954/1961).

The strengths of Robbers Carre experiment was that it also a field experiment which meant the setting was natural for the participants, and so it has high ecological validity. As well as that, the data collection methods of the experiment such as socionnetric analysis, and the findings agreed. This preans that the experiment was valid.

Furthermore, another strength of the experiment was that it had practical application. This was because in stage 3 when the superordinate goals were introduced, the researchers found that the conflict between the two groups decreased. This can have help in real-life as often conflict and hostility leads to prejudice so if conflict to prejudice is decreased then prejudice can be decreased. Also, another strength was that the tasks given to the boys was real-life tasks for them so it was measuring real-life behaviour and so the experiment had high task validity.

As well as that, the Triffel et al (1970) study can be evidence for this study as Thyped they found that the more existence of the two groups lead to prejudice. This was shown in stage I of the Robber's Corre experiment when there was already hostility eventhaligh both groups had not even met each other.

(8)

However, a prealiness of this experiment was that it is not generalisable. This is because the participants were all bougs aged 14-16 and they were tested beforehand for their sporting ability. Therefore, the cample is not representative of the whole population and the findings can't be generalised.

Additionally, another meaniness is that the researchers didn't gain informed consert from the boys themselves and so this meant that they would have no right to withdraw because they wouldn't be aware of it. In all this means that the experiment was not every carried out a under all ethical guidelines.

As well as that, was weathers of the experiment was that eventhough it was a field experiment, it was prone to demand characteristics. This is because years later when the bays were interviewed, they said that they knew that they were being watched su findings are invalid.

In conclusion, the Robber's Cove experiment measured what it intended to and own be the findings can be applied to real tipe. However, it did have many mealineaser.



This candidate provided a strong level 3 response to the question.

Overall, the response demonstrates accurate knowledge and understanding in most parts. Whilst there are some inaccuracies, for example informed consent from the boys, a good understanding of the study is evident throughout the response. The evaluative skills demonstrated in this response are developed reasonably well. There are some areas where development of the evaluation was required to specifically connect the evaluation to the study itself, however the majority of evaluative points are well reasoned and specific to Sherif et al (1954/1961). There is a grasp of competing arguments shown in the response; however there is a lack of balance. The candidate concludes with a final statement, and there are a number of intermediate conclusions within the response.



Candidates should avoid generic statements that are not connected to the study given in the question. This response is a good example of some specific evaluative point that are developed to achieve the higher mark bands.

3 Sherif et al. (1954/1961) conducted The Robbers Cave Experiment to investigate intergroup conflict and cooperation.

Evaluate The Robbers Cave Experiment conducted by Sherif et al (1954/1961).

(8)

The gim of the study was to investigate whether prejudice could be created between two groups of young boys, and see see if this friction could then be reduced These were 22 participants all protestant, Il years old, male and from Aciahama. They did not trow each other prior to the study They were split into two groups based on matched on 10 fest results, teacher ratings and sponting ability. The study took place at a bays of America scout camp and data was collected into observation, experiments sourcements analysis and take vecarding These were 3 stages to the study, stage 1 was ingroup formations, where the poys had a meet in their separate groups to form group noms and get to brav each other taking part in common god a chinkes. Stage 2 was intergroup velations frontion phase where the buys that were inmoduced and took part in competitive a crimines such as a baseball competition Stage 3 was intergroup relations integration. The researchers wonted to a chieve hamony between the boys so introduced common and superordinategoals, e.g. wooking together to fix the mick and pull it out of the mud Posults in stage 1 were that groups norms were establish, group leaders in place and "names (rattless and tagles) Stage 2 results were that clear negative attitudes ansed from The boys just meeting and the wanted to complete against each dur.

Stage 3 results showed that the boys worked together on the superordinate goals and friction decreased, for example the relations chose only 6.3% of outgroup members as friends at the end of stage 2, but then chose 36.4% as friends at the end of stage 3!

On Shen'f concluded that prejudice can occur from 2 different groups simply knowing another group existed, however metron (prejudice can be reduced with the used of multiple common (superordinate goals mat get the boys to worktageme.

A strength of the study is that it is high in ecological validity, as it is a lab experiments and so the tarks were natural. For example playing baseball is a natural everyday task, for results represent the everyday behaniour and have real-life mundamin A weakness is that the study lacks generalisability and so findings oven't generalisably to the wide population. This is because shenf's sample ansisted of only 11 year of bays for example, so therefore anoth representative of adults (eg. 20 plus) or givis:

In conclusion shinf's study can be considered useful as we trow brow one way to reduce prejudice; supernohinate goals, so the can be applied to situations e.g. prejudice between groups of shidents in a school - getting them to work together on a common goal to reduce friction.



In this level 2 response, the candidate has given a detailed description of the study before reaching their evaluations on the second page of their response. Whilst some of the evaluative points can be linked back to some of the content in the description, the response does not meet the overall requirements of the higher mark bands as it it has limited chains of reasoning chains of reasoning and developed evaluations.



Candidates have limited their time and content with detailed descriptions. For evaluation questions such as this, candidates should focus their responses utilising their knowledge and understanding to underpin evaluation content to achieve the higher mark bands.

### Question 4 (a)

In this response most candidates were aware of the data analysis techniques that would be used to analyse questionnaires with open and closed questions. It was pleasing to see that the descriptions of thematic analysis were very good and candidates usually achieved good marks for these components. Quantitative data analysis was less well described, with some references to mean, median, mode and standard deviation but more often than not, these were simply stated in a list. Some candidates did not make the connection to their practical here, and as a result did not achieve the marks available. Candidates should be reminded that questions about practicals require them to discuss their actual practical, in this case questionnaires, and not give generic definitions or descriptions of data analysis techniques. In this case a number of definitions of central tendency and thematic analysis were seen without reference to the use of these in analysing their own practical data from questionnaires.

Common errors here included candidates describing what they did in terms of handing out questionnaires and also how they sampled their participants. In addition, a number of candidates discussed laboratory experiments, observations and interviews which are not the social practical and they therefore did not achieve the marks available.

4 In your studies of social psychology you have conducted a practical investigation. (a) Describe how you carried out the analysis of the data you gathered. (4)In my practical, I gothered both grantitative and gralitative data because in the questionnaines, there were both open and closed questions. When me grantitative data, he worked out the measures of central feidency (i.e. mean, median and standard deriation. I have put mode) the means a bar graph and meI analysed whether the groups into Mar findings montched my hypothesis. However, for qualitative did thematic analysis, the answers to the four different open questions were put into categories. After Butting the categories, I worked out themes from them and phymers themes for the age groups were; knowledgeable, experience, energy.

Results Plus Examiner Comments

This candidate gave a thorough and well developed description of how the data was analysed in their social practical. The response is well structured and explains both components of the practical questionnaire data analysis. This response achieved 4 marks. 4 In your studies of social psychology you have conducted a practical investigation.

(a) Describe how you carried out the analysis of the data you gathered.

(4) From the questionnaires we calketed back from participants, we tally how women males and females di that we presented chat to show the par of dedience m



Whilst this candidate has described some data analysis, they have not given detail or depth in their response, therefore achieving 2 marks.

### Question 4 (b)

Some candidates answered this question well, giving a good improvement with reference to why this would improve their practical. Many candidates seemed to miss the direction to discuss their practical here, and offered generic responses describing, most often, a change in sampling method without any reasoning as to why this would improve their practical investigation. Centres should remind candidates that their practical investigation can be assessed in examinations and they should provide applied responses when discussing their own research.

A common error here was to suggest a different practical method. This was inaccurate as the question required candidates to improve their procedure, which is a questionnaire, not to change their research methodology completely. Some candidates suggested gathering qualitative data instead of just having quantitative data, these were not creditable responses as the practical investigation stipulates the need for qualitative data to be gathered in the questionnaire from the outset.

Those candidates who had spent significant time planning and evaluating their practical as a part of their learning provided the better responses here, clearly understanding the implications of their procedural choices and suggesting accurate and well understood improvements. It was clearly evident that they had engaged with the practical element of the course very well, and some centres have encouraged their candidates to undertake some very engaging practical research.

Centres are reminded to check the requirements of the practical investigations to ensure accuracy in methodology, content, analysis and ethical compliance.

(b) Suggest **one** improvement you could make to the procedure of your practical investigation. (3)Population validity was questionable. Its we used opportunity sampling, kyst gills in the same school (as us) to Fill in the questionaire on reptions of obedience. They all show some similar characteristics social deveographic, same age, same class. So results anot crutation + can't be generalized to the target population. Next time, up should ramy the invertigation \$A participants of all ages and in different schools, in orde

to obtain a more representation sample. We could do this by random

samplina

### Results Plus Examiner Comments

This response is a good example of an applied answer, giving a full and detailed improvement with justification for how and why this would improve the procedure of social practical investigation. This response achieved all 3 marks.



Clear application to the practical should be shown for application marks. Here the candidate very clearly discussed their questionnaire on obedience and their improvement in relation to sampling participants from only one school.

### Question 5

This question is an extended open response which is targeting a balance between AO1 and AO3 skills and is assessed using the level mark bands for 'assess'. Candidates were required to assess whether or not Milgram was justified in breaching ethical guidelines in his studies of obedience to authority and to reach a judgement.

This response was answered fairly well and candidates are clearly able to provide good knowledge and understanding of Milgram's work and ethical issues. However, many candidates provided lengthy descriptions of the study at the start of their response, giving unnecessary details about aims, procedure, results and conclusions - and while their knowledge was generally very good here, it was content that was not relevant to ethical considerations and whether Milgram was justified in his breach of ethical guidance. As a direct result of lengthy descriptions, a large number of candidates often struggled to begin their assessment until the second page, leaving reduced time and space to fully answer the question or give 'coherent chains of reasoning' and this has hindered a number of candidates.

On this question many candidates had limited themselves by giving an 'evaluate' response, stating strengths and weaknesses of the study based on ethical issues rather than assessing the arguments as to whether Milgram was justified in his decisions. Few candidates referred to supporting evidence in their arguments, however those that did often cited Burger (2009) very well as evidence for why Milgram was unjustified, or included arguments from Baumrind to demonstrate the significance of the points they were making, this was pleasing to see.

5 The British Psychological Society (BPS) code of ethics and conduct (2009) sets an expected standard for psychological research. However, it has been claimed that some studies into obedience have not met ethical guidelines. Some psychologists have argued that this breach of ethics was necessary in order to achieve accurate results.

Assess whether Milgram was justified in breaching the ethical guidelines in his original study of obedience (1963).

(8) Igrami was justified in breaching the rical quidelines in his original Without it he would berause 107 Nave geir is is because the perficipants to believe that it was real and were actually electrocuting the that they other perticipant in order to see if they 1 in an autonomous 1101 State or slip agentic State. inn

Breaching the ethical guideline of the to withdraw was necessary to put the participants in an agentic grate as when the experimenter word the verbal prod, "The experiment requires that you continue". This removed their right to withdraw and put them into a situation where they were no longer free to do what they wished and in some cases, made them go up to the full Vertage as an agent of the State.

However, Milgram was not justified in breaching the Ethical quideline of Short-term and long-term hourn. Short-term and longterm harm is the effect of the experiment on the participant for either a long or Show period of time for example, howing the belief that they were acrually shoching another person and hearing the banging on the wall at 3000 and then silence at 3300 would most likely have long-term harm on the participant as despite being & in an agentic state, they were still under the impression that they had injured or possibly hilled someone. This would most likely continue after the debrief as they would know that When pressured, they would possibly hill someone

In conclusion, in Order to collect valid and accurate results, Milgram had to breach Othical quidelines as that was what his experiment was all oborit; seeing if people would for fatorfel Shoens to another human being when R being put inder moral Strain by an authority figure.



This candidate has provided a good level 3 response, achieving 6 marks. They have been able to assess whether Milgram was justified or not in his ethical decisions, and have made accurate connections between ethical points, Milgram's study and attempted to give an assessment of the competing arguments. While there is an attempt at a balanced response, some of the points given do not quite develop the significance of the factors being discussed and as a result the response remains in level 3.

5 The British Psychological Society (BPS) code of ethics and conduct (2009) sets an expected standard for psychological research. However, it has been claimed that some studies into obedience have not met ethical guidelines. Some psychologists have argued that this breach of ethics was necessary in order to achieve accurate results.
Assess whether Milgram was justified in breaching the ethical guidelines in his original study of obedience (1963).
(8)
In Milgram's study, some of the othical guidelines were broken and
Some were met. All participants gave consent to take part in the
Study houser they did not give informed consent as they were
decide deceived about the aim of the study. Participants were told
that the aim of the Black study was to see the offect of
Punishment on learning Whereas the true aim of the Study was to
See the lovel of a bedience. Therefore even though, they gove
witten consents, treywere deceived about the aim of the study. In
addition, must of the Markin Participants Suffered from Severe Stress
during the study therefore they were het 100th protected, however
Milgram made sure the participants did not suffer from stress in
the future by sending the participants to a psycholist - The
participants were also not made aware that they can be withdrawn
from the study at any point and that their results can also be
withdrawn. Therefore some rarbinants may have thought that they
ware ablished to came on with the study- In addition, the
participants were paid to take part in the study which is unothical
as again, they may have thought they were obliged to take
Part. In conclusion, Milgram's Study broke a lot of the
Othical guidelines as the place of the laboratory was released
and eventhagh it was meant to be considered in housing all the
names and addresses of the participants where kept Consideration

## Results Plus Examiner Comments

This candidate has good knowledge and understanding of Milgram's work and the ethical issues, however they do not fully answer the question. The candidate has given an evaluation of Milgram, rather than an assessment of whether his decisions were justified or not. They have not given competing arguments and there is only a superficial judgement in the form of a basic conclusion rather than supported or balanced judgement. They have achieved level 2 at 4 marks.

.....



Candidates should be directed to the taxonomy used in questions and the associated skills.

### Question 6 (a)

This question required candidates to give a fully operationalised hypothesis using the stimulus material in the question. Some candidates performed very well on this question, achieving the full 3 marks available by giving a clear, accurate and wellstructured hypothesis. Others were able to give an accurate hypothesis, but without fully operationalising the IV or DV, limiting their response to 1 mark. It was also evident from responses that some candidates struggled to give a hypothesis that included both components of the IV, and in these responses candidates often failed to achieve a mark.

#### SECTION B: COGNITIVE PSYCHOLOGY

#### **Answer ALL questions.**

**6** Jared decided to investigate how many household objects could be recalled by participants when rehearsal was prevented. He conducted a laboratory experiment where he displayed 25 household objects to the participants for one minute. Jared then asked the participants to count backwards from 20 before they attempted to recall as many household objects as they could.

(a) State a fully operationalised directional (one-tailed) hypothesis for Jared's experiment.

(3)There will be significantly less household chiects recalled by people counting those who's rehearson was preve

Results Plus Examiner Comments

The candidate has given an accurate and operationalised hypothesis and achieved 3 marks. The first mark is for the directional hypothesis which included the full IV (preventing/not preventing rehearsal) and then 2 marks for the operationalisation of the DV as 25 household objects and IV as counting backwards from 20.

Results Plus Examiner Tip

Operationalising the IV and DV fully shows that candidates understand that variables in psychological research need to be specific and measurable.

#### SECTION B: COGNITIVE PSYCHOLOGY

#### **Answer ALL questions.**

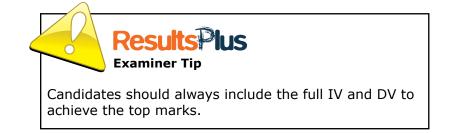
6 Jared decided to investigate how many household objects could be recalled by participants when rehearsal was prevented. He conducted a laboratory experiment where he displayed 25 household objects to the participants for one minute. Jared then asked the participants to count backwards from 20 before they attempted to recall as many household objects as they could.

(a) State a fully operationalised directional (one-tailed) hypothesis for Jared's experiment.

(3) Participants will recall less household objects when there is an interference task preventing recall compared with Manacally was allowed when rehearsal is not prevented.



Whilst this is an accurate directional (one-tailed) hypothesis, neither the IV nor the DV is operationalised.



### Question 6 (b)

This was an AO1 and AO2 question, where candidates were required to give a participant (experimental) design for Jared's study. Many candidates achieved well on this question, with the majority of candidates giving an appropriate design and many suggesting how Jared could do this making good use of the stimulus. Some candidates failed to apply their design choice to Jared's study and gave generic descriptions of their chosen design. A common response included suggesting independent measures, with a description of each recall condition, and this was usually well expressed. Less well expressed was the choice of matched pairs design, where candidates were unsure of why this would apply to Jared's study, giving examples such as being matched on gender which were poorly connected to the memory experiment in the stimulus. Where candidates made errors, they often gave a sampling method rather than a design.

(b) Describe an appropriate participant design that Jared could use for this experiment.

He lared caud use an m independent groups design unich is when participant only race part in one condition for and (A or B) not born. The first condution caud be usen repeared was not prevented so they and recalled the household objects straight after studying mom, with no interference. This would ad as the control grap, allowing for compansion. The second grap a participant wave then do condumon B where they had to can't backwards from 20 before recalling the nords.

(3)



This candidate achieved the full 3 marks available. They gave an appropriate design and applied this accurately to the experiment Jared conducted.

(b) Describe an appropriate participant design that Jared could use for this experiment.

Independant musures is appropriate because liferent participants to take purt in the means that results achieved can be It as against each other.



This candidate achieved 1 mark for their knowledge and understanding of the design. There was no application to the stimulus and therefore the application marks were not achieved.



Where a question indicates a candidate should utilise the stimulus by making reference to the context or signposting the candidate back to the stimulus, they should always give application points in their responses. (3)

### Question 6 (c)

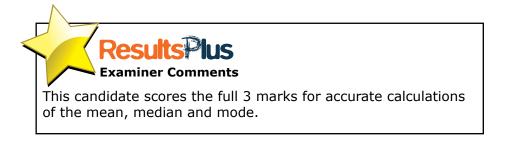
This question required candidates to calculate the mean, median and mode scores from the data provided in the question. Most candidates achieved well on this question, calculating all three scores accurately. Some candidates were unable to calculate the median score, often giving either 4 or 5 as their response, rather than 4.5. Inaccuracies in the mode score were either from reading the wrong data set, or miscounting. Candidates should be reminded that they should give the correct number of decimal places as indicated in the questions to achieve the marks, there were occasions where incorrect decimal places were given, which resulted in candidates giving inaccurate answers.

Calculate the measures of central tendency for the data Jared collected for participant recall in **Condition 1** and complete **Table 2** below with your answers.

(3)

Mean number of items recalled when rehearsal is <b>not</b> prevented (to two decimal places)	<b>Median</b> number of items recalled when rehearsal is <b>not</b> prevented	<b>Mode</b> number of items recalled when rehearsal is <b>not</b> prevented
4.58	4.5	2

Table 2



### Question 7

Candidates have performed well on this question overall. The success of candidates on this question appeared to vary with the study chosen. There appeared to be a roughly even spread with the choice of contemporary studies. Most candidates focused their responses on the procedure as required by the question, with very few giving aims, results or conclusions, which was pleasing to see.

Those candidates who had studied Sebastian and Hernandez-Gil (2012) tended to perform well, being able to give at least five, often more, procedural points about their study. However, common errors seen on this study were often a result of candidates referring to words instead of digits, being unable to give sufficient detail on the sample process and they struggled with accuracy about the rate at which digits were presented.

Candidates who provided responses about Steyvers and Hemmer (2012) often answered with sound knowledge of what the images were and how the sample was selected, however they tended to muddle or combine all phases of the study rather than explaining these distinctly. Many were overly focused on the sampling process giving several sampling points which were not creditworthy, and some struggled to describe the use of the images accurately and the measures of behaviour. The candidates achieving well here were able to specify how long images were shown, the measures for recall, and how participant responses were recorded.

Candidates who had studied Schmolck et al. (2002) often struggled the most with this question. They were able to give very detailed description of the sample of participants, but then the understanding of the tasks in the study or how behaviour was being measured was sometimes vague or inaccurate. The candidates who performed best on this study were able to give details about item categorisation, one or more of the tests administered and what was being measured and how the test data was recorded.

- 7 In cognitive psychology you will have learned about one of the following contemporary studies:
  - Schmolck et al. (2002)
  - Steyvers and Hemmer (2012)
  - Sebastián and Hernández-Gil (2012)

Describe the procedure used in one study from the list.

Name of study Sebershicen + Hespandez-Gi and the nandez - Gil Putrol aight span was allected by participants them public and private schools ample was given h do. Then 3 seguences its mere PAL 0 at at a rate or persecone. Participants roud he algib in the croler they h naca theach aigit increased the lenci nus tanen a SDAN ald Nbes that be eavences Λ0 imea an au pung and elderly resul



procedure of their chosen contemporary study very well, achieving the full 5 marks.



When describing a procedure, candidates should give detailed points. In this case, the candidate has given a full point about the sampling of the participants, drawing on all the key features of the sampling choice. This would achieve a mark. However, simple statements of '570 participants were used' shows a limited understanding for the sampling process in this particular study.

### Question 8 (a)

Candidates were required to explain the function of the central executive in the working memory model. Most candidates achieved well on this question, often scoring two or three marks here. It is pleasing to see that candidates were able to respond to the question direction about 'function' and so very few gave simple definitions of the central executive. Most candidates explained the functions of monitoring/controlling the actions of sub-systems, allocating/distributing tasks to the sub-systems, and controlling attention. Some candidates were able to accurately include the function of problem solving and processing of information in any modality. The common errors were often seen where candidates defined points about the central executive, rather than explaining functions, for example 'it has limited capacity' or 'it is the boss of other systems'. Overall, this question was generally well answered and showed good understanding by the candidates of this model of memory.

8 Baddeley and Hitch (1974) claimed that memory was composed of separate systems that each have a function in processing and storing cognitive information. They refer to this as the working memory model.

(a) Explain the function of the 'central executive' in this model.

Central Executive control and co-ordinates the two slave system ie, phonological loop and visuo spacial sketchpad. It is responsible of for focusing or dividing attention on particular task. It supervises the two slave systems. Central executive is also responsible for carrying out mental tasks such as arithmetic problems.



executive very well, achieving the full 3 marks available.

(3)

### Question 8 (b)

Candidate responses to strengths and weaknesses of theory were mixed. Many candidates were able to give a basic point for their strength or weakness, however this was not always explained. Exemplification or justification is required for the AO3 mark. Those candidates who performed best were often able to support their weakness well, and evidence from Liebermann was used to achieve this. The support or justification for the strengths was less well presented, with some muddled and inaccurate responses being given here. Those who used case study evidence to support the notion of distinct stores were able to achieve well in justifying their strength.

Centres should encourage candidates to always support their basic AO1 point with development and exemplification in this style of question for an AO3 mark, and in this question this skill was best seen when supporting evidence was used.

(b) Explain **one** strength and **one** weakness of the working memory model. (4)Strength One Strength is the supporting evidence- KF damaged to short term memory in a moror cycle accident but only \* Sponenturitien intomation was impaired, his recau of recan of NUCU information remained inface. Therefore, this show there are 2 separate stores in shore-term memory, the Weakness phonological (COP of of the Visuo Spacial Sketchpad. One wearness is that the state research su this model is low in ecological variaty. Badde used meaningless words with to research which ma how people recau everyday information not be true to to them. Therefore, the working eanma tuny representance of how NOT 60 man some in real life Struction.



This candidate has achieved 4 marks. The strength that there is supporting evidence for distinct stores in working memory, has been justified with reference to the case study of KF. Equally, their weakness that working memory may not represent realistic, everyday use of memory and thus it may be inaccurate, has been supported by using experimental evidence of tasks that lack mundane realism.



Candidates should ensure that their evidence or justification is clearly linked to their point.

### Question 8 (c)

This question is an extended open response which is assessed using the level mark bands. Candidates were required to evaluate the study by Baddeley (1966b) drawing on their underpinning knowledge of the study and using evaluative skills to provide a balanced evaluation, and drawing to an informed conclusion from their evaluative points. Conclusions were rarely seen, either throughout or at the end of the responses, and this has limited candidates to lower levels in the mark bands. Those candidates who were able to give balanced evaluations and make conclusions about the study achieved very well, and it was pleasing to see a number of candidates able to draw their conclusions effectively from the evaluations they had provided.

Many candidates provided lengthy descriptions of the study at the start of their response, giving details about aims, procedure, results and conclusions which were often not relevant to the evaluative point being made. As a result of lengthy generic descriptions, a large number of candidates often struggled to begin their evaluations until the second page, leaving reduced time and space to fully answer the question. A response that does not provide evaluative (AO3) points that are connected to or underpinned by accurate knowledge and understanding (AO1) is likely to struggle to meet the higher levels criteria for 'logical chains of reasoning' and this has hindered a number of candidates.

Many candidates appeared to struggle with the evaluations of this particular study which appeared to be as a result of not fully understanding what Baddeley was testing. Most evaluations that were given often centred on sample size, mundane realism and the experimental method, these were generally accurate evaluations and demonstrated good understanding of the experimental method, but some were generic and not linkedto AO1 knowledge and understanding of study itself. Those candidates that achieved well, were able to coherently connect their knowledge point to evaluative point, for example developing the concept that the task of word lists decreased task validity, however many did not provide this connection. A number of inaccuracies were seen in the knowledge of the study, and this resulted in limited development in the evaluative points, as the evaluations were based on inaccurate understandings. Where candidates achieved well, they often were able to make accurate procedural statements with logical reasoning as to why this would strengthen or weaken the study, such as having word lists visible in the room in order to increase the accuracy of testing order of recall rather than memory of words.

Candidates are only required to know one of the studies conducted by Baddeley (1966b) and some candidates had learned all three and muddled these.

(c) Baddeley (1966b) conducted a laboratory experiment to investigate the influence of acoustic and semantic similarity of words on long-term memory. Evaluate Baddeley's (1966b) study. (8) Baddely 1966 study ups related to upril call The ain way to see if accounterely semilaion (dissemblic word had effect on recall Or well as sencerticity dissentice / sentice arres Menny recall The procedure war pplit up 116 4 clags and each participus was tested valideally. They were 23 males and 13 Junales. They were show accounticially similier worth which are worde that sound the same cost at a rale of \$1 words every 3 seconds was they hard to observe the for is minute. They they had an integering tool which area and to change what they remembered After less 30 purcele tool they have be recold the words observed The proces was then repeated for accoustically dissemble words, which is words you that don't Sound the scene The inlegiorice best occurred the recoll For semantically service work, wordy land look the same the ion pover occured the intervence toole. The agent for sementically

#### 34 GCE Psychology 8PS0 01



This candidate achieved level 1, 2 marks. They have provided a detailed, although inaccurate in parts, description of the study and did not begin the evaluation until the middle of page two, where they give limited evaluations that were generic to the laboratory method and inaccurate at times. There was little knowledge from the description of the study that could be connected to the evaluation points given by this candidate.



Candidates should give evaluation pointsthat are underpinned by knowledge and understanding (AO1) and make and make logical connections to knowledge points from the study throughout their evaluations.

### Question 9

This guestion required candidates to evaluate the use of quantitative and qualitative data in the context of Ed and Naieeb given in the stimulus. This, as the final guestion, is a question that draws upon content from both social and cognitive psychology, and in this question it was the methodological issues from the two topics that were used. This question required candidates to provide an evaluation of the data types in relation to the scenario, however this application skill was often limited in responses and as a result had limited candidates reaching the higher mark bands. Those candidates who achieved well here were able to demonstrate their ability to evaluate the types of data in relation to student wellbeing, tutorials, and even the likelihood of the sample (students) engaging with the methods suggested. This was pleasing to see, and these candidates have clearly given well considered responses to the question. Candidates achieving less well had given responses where the data types were evaluated without consideration of the stimulus given in the question. Some candidates gave descriptions of quantitative and qualitative data and descriptions of laboratory experiments and guestionnaires which demonstrated some knowledge and understanding, however they were often unconnected to the stimulus of the reasoning developed in evaluations.

Levels of application to the stimulus varied in responses, with some candidates simply using the names Ed and Najeeb as application, these responses tended not to score highly. Application responses should focus on the whole stimulus and focus on the behaviour or issue given, rather than the name of the person in the context. The most able candidates made excellent connections between their underpinning knowledge of the data type, how it benefits or hinders psychological research and developed this through further reasoning to evaluate the usefulness of the data to the context.

Evaluations were sometimes generic in the responses to this question, statements such as 'qualitative data is subjective' were sometimes seen without exemplification as to why this may be the case, or why this is either a strength or weakness. Some candidates gave supporting evidence in their justifications for evaluation points, this was pleasing to see and where evidence was used it was very well expressed and coherently connected to the data type or the use of laboratory methods or questionnaires in research.

#### SECTION C

9 Ed and Najeeb are researching the effects of individual tutorials on student wellbeing. Ed wants to carry out a laboratory experiment and collect quantitative data, whereas Najeeb feels they should use interviews to collect qualitative data.

Evaluate the use of quantitative and qualitative data when conducting research into psychological issues. You must make reference to the context in your answer.

Quantitative data is numerical date, how mich something there is, whereas Qualitative date to interpret, its more descriptive. you have Quantitative data is easier to analyse & examine it can be used in closed questions in questionaire, or even in structured interviews. It is analyse. Henerer, sometices paricipants quicker to can feel like they can't fully express what they They express. wanswers limited are in th & this can be frustrating to the parhicipant. This can be reduced slightly have not the likert scale, which shell is manhahr data, but participants are able to express Themselves is much harder to interpret, Qualitative data it takes much longer to analyse. It can be used in questionaires, but usually is used on senior unstructured after news. It gives the Shuchined participant much more freedom in thur annous to fully express themselves. When dealing though, both types can issues WAI difficult as the parhiapant will want to be Seen in

(12)

ally desirable light this SO 50 MAR 6 C Ø in ren iha gng be LARON NA NO a ease inner express Mems To (ab In C lĸ yon Mai .Ql ..dJ terstics CM ar A. 0.K τD Wa



This candidate achieved level 2, 4 marks. They have given evaluations and connected these to knowledge of quantitative and qualitative data types and gathering such data, however their application to the stimulus is limited, resulting in the candidate not fully meeting the levels based mark band criteria for more than level 2. Due to the limited connection to the stimulus, they were awarded the lower end of this mark band.

#### SECTION C

**9** Ed and Najeeb are researching the effects of individual tutorials on student wellbeing. Ed wants to carry out a laboratory experiment and collect quantitative data, whereas Najeeb feels they should use interviews to collect qualitative data.

Evaluate the use of quantitative and qualitative data when conducting research into psychological issues. You must make reference to the context in your answer.

Quantitative data is normally gathered in controlled experiments and so it can be replicated as it is a standardised procedure. Therefore, it can be tested for reliability and a lot more data can be gottered which enables is to make companions. This is beneficial when researching psychological issues as you can get a hader sample. As well as that, questionnairer can be one form way to collect quantitative data and it can be sent through the post so it is cheaper and more convenient. Quantitative data as enables us to work at data statistically and this can be good to find comeand effect conclusions on coletter individual tutorials affects student nellbeing. Howeker, the problems with gettering gramitative data for this psychological issue a that if & for example a grestionnaire a used then we don't know if the participants are harmed by the topic or some of the questions - Additionally, aborntory experiments are an unnatural setting for the participants and so it is prope to demand characteristics, they may well assume what they think we will like to hear. Also, there is usually social desirability base as participants may not reneal their true feelings. Also, quantitative data is neurally not valid and can be too simplistic when analysing psychological issner.

(12)

On the other hand, qualitative is usually detailed and descriptive and allows us to gother in depth detail about the individual. This can be really helpful when finding out whether there is an effect of individual fotonials an student melloring. This is because when interviewing the participants, we can allow them to expand on their answers and the findings will be more could than gottening quantitative data. As well as that, in interview, the interviewer can check itsetter the participant is upset by the questions and me can make & one that they don't & come to any psychological house. Therefore, gathering qualitative data can be good for this issue because you will get more uponation than quantitable as it has timited areness. Despite that, qualitative data is very difficult to analyse and takes a lot of time & is very differen hand to gentler. During an interner, the particip ants can also change their answers depending on the tane of voice or facial expressions of the interviencer so It is still prove to demand characteristics. In addition, qualitative data can't be generalised become the answer has came from an individual and there are individual differences. Therefore, this means that what result there is for person is not for another and so you won't get anyou accurate answer to if there is an effect of individual tutorials on student wellbeing. In conclusion, I think that both data methods one good in gathering unswers to the effect of the individual totorial on students wellbeing- And, quantitative & qualitative cours be and you can get a general answer from there, they both have their own strengths a weathnesses.



This candidate achieved level 4, 10 marks. The responses is well balanced with clear and coherent reasoning as to the use of quantitative and qualitative data in regards to the scenario and the methods associated with gathering these types of data, again linked to the scenario. They have applied their knowledge and understanding to the stimulus throughout their response and developed their argument around whether the data is best for this particular context. The candidate could have given more application to the scenario, hence the low level 4 mark awarded.

### **Paper Summary**

Based on performance on this paper, candidates are offered the following advice:

- Where an extended open response question (8 marks or more) is used, candidates should draw upon their knowledge and understanding to support logical chains of reasoning in order to achieve higher mark bands.
- Candidates should give balanced responses with informed conclusions or judgements (where appropriate to the taxonomy used) in their extended open responses.
- Candidates should apply their understanding to the behaviour or context in a given scenario, not just give a name.
- Evaluation points, strengths and weaknesses should be specific not generic (particularly in evaluations of studies).
- Explanations should be exemplified, not just described.
- Use of supporting evidence for evaluations, strengths and weaknesses would aid candidates in exemplifying their points.
- It should be made clear in responses about candidate practicals exactly what the practical was that they completed.
- The IV in a hypothesis requires both conditions, and the IV and DV should always be fully operationalised.

## **Grade Boundaries**

Grade boundaries for this, and all other papers, can be found on the website on this link: <a href="http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx">http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx</a>





Llywodraeth Cynulliad Cymru Welsh Assembly Government



Pearson Education Limited. Registered company number 872828 with its registered office at 80 Strand, London WC2R 0RL.