

## PSYCHOLOGY

9990/23 October/November 2019

Paper 2 Research Methods MARK SCHEME Maximum Mark: 60

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

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## Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

	FUBLISHED	2019
Question	Answer	Marks
1	One ethical guideline is to avoid deception in research. Explain what is meant by 'deception', using an example of a core study from the social approach.	2
	1 mark for explanation, 1 mark for example (from core study)	
	Deception is when the participants are lied to about the aim/procedure (explain = 1) e.g. Milgram said it was a study on memory/learning/punishment (when it was really about obedience) (example = 1) Misleading participants about the study (explain = 1) e.g. Piliavin et al.'s participants were led to believe that the ill or drunk victims were real (when they weren't) (example = 1)	
	Do not accept 'When participants cannot give informed consent' or 'when participants are not told the truth', this omits the crucial distinction between consent and deception	
2	A study aims to find out whether boys and girls differ in the amount of time that they talk.	
2(a)	<ul> <li>Write an operationalised directional (one-tailed) hypothesis for this study.</li> <li>1 mark for a correct hypothesis that is not operationalised OR has only one</li> </ul>	2
	<ul> <li>operationalised variable</li> <li>2 marks for a correct hypothesis with both IV and DV operationalised.</li> <li>For example: <ul> <li>Males will talk for longer/more often/for more minutes per day than females (2)</li> <li>Females will talk more than males (1) ['more' is not operationalised)]</li> <li>There will be a difference in talking between the genders (0) [non-directional]</li> </ul> </li> </ul>	
	<ul> <li>Gender affects the amount of time spent talking (0) [non-directional, even though DV is operationalised]</li> </ul>	
2(b)	Write a null hypothesis for this study.	1
	1 mark for a correct null hypothesis.	
	<ul> <li>For example:</li> <li>There will be no difference in (amount of) talking between male and female participants (1)</li> <li>There will be no difference in (amount of) talking between the genders</li> </ul>	
	<ul> <li>(1)</li> <li>Any difference in talking between male and female is due to chance (1)</li> <li>Any difference between talking and males and females is due to chance (0)</li> <li>There will be no difference between talking and gender (0)</li> </ul>	

		2013
Question	Answer	Marks
3	Explain <u>one</u> advantage of using animals in research in psychology.	2
	1 mark for identifying advantage 1 mark for detail	
	Animals are unlikely be able to work out the aim of a study = 1 (advantage) so would be less likely to respond less to demand characteristics than humans = 1 (detail)	
	Procedures that cannot be done on humans can be done on animals = 1 (advantage)	
	For example lesioning/(food/social) deprivation is less possible with humans = 1 (detail)	
4	From the study by Schachter and Singer (two factors in emotion):	
4(a)	Describe <u>one</u> way in which 'anger' was measured.	2
	1 mark for identifying measure of anger 1 mark for detail	
	The reaction of the participant to the stooge/watch them through a one-way mirror = 1 (identification) e.g. observation of how they responded on list of behaviours = 1 (operationalisation)	
	Self-report/questionnaire (of 'anger') = 1 (identification) On rating scales such as 'How angry or annoyed would you say you feel at present?' = 1 (operationalisation)	
4(b)	Suggest <u>one</u> reason why it is important to operationalise variables, using the example of anger in this study.	2
	1 mark for identifying reason 1 mark for using anger	
	To make the measure more valid/objective = 1 (reason) so that they could be sure that they were measuring anger = 1 (link)	
	To make the measure more reliable = 1 (reason) so that the measures of anger were consistent on each trial = 1 (link)	

	PUBLISHED	2019
Question	Answer	Marks
5(a)	Explain what is meant by 'covert observation', using the study by Bandura et al. (aggression) as an example.	3
	1 mark for 'hidden' (generic definition) 2 marks for linked detail (1 mark for link, 1 for detail)	
	The observer is hidden = 1 (generic definition) The participants do not know the role of the observer (even if they can see them) = 1 (generic detail) Bandura et al. used a one-way mirror = 1 (linked detail) so the children were unaware that they were being watched = 1 (linked detail)	
5(b)	Suggest <u>one</u> advantage of covert observations.	2
	1 mark for advantage (may be generic) 1 mark for detail (does not have to be linked)	
	Behaviour will be natural/unaffected by observers = 1 (advantage) as there will be fewer demand characteristics = 1 (detail) so there will be less social desirability = 1 (detail) so Bandura et al.'s children wouldn't be extra good/naughty because they knew they were being watched = 1 (detail – linked)	
6	Describe how the case study method differs from other research methods, using any examples.	6
	<ul> <li>1 mark for each (of two) descriptive points about case studies (definitive: one instance + in detail)</li> <li>1 mark for each example (from a study or made up) that is linked to case studies, up to a maximum of 3</li> <li>Each difference that explicitly compares case studies to another method = 1</li> </ul>	
	For maximum marks, there must be at least one difference and at least two examples.	
	<ul> <li>For example, differences:</li> <li>In all other methods a group of participants is used but in case studies there is only one (instance) = 1 (difference) <ul> <li>e.g. Yamamoto et al. used several chimps but Pepperberg used only 1 parrot = 1 (example)</li> </ul> </li> <li>Experiments/correlations/self-reports using closed questions collect quantitative data whereas case studies collect (mainly) qualitative data = 1 (difference) <ul> <li>e.g. Canli et al. collected numerical data from brain scans in contrast to Savaadra and Silverman who collected descriptions of the boy's experiences at school = 1 (example)</li> </ul> </li> <li>Experiments focus on making generalisations whereas case studies look specifically at the way an individual is special = 1 (difference) <ul> <li>e.g. Yamamoto et al. looked at patterns of helping that all chimps showed but I could do a case study of one chimp and find it was quite different = 1 (example)</li> </ul> </li> </ul>	

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Question	Answer	Marks
7	Liam is investigating whether children can be given false memories of a game they had played, such as winning a game that they actually lost. He plans to play and win the game with each child and tell them he is writing about it in his diary. Later he will pretend to read from his diary, telling each child a false story in which they won the game. He will then ask each child to write about the game they played.	
7(a)	Outline <u>one</u> way that Liam could measure the children's false memories.	1
	1 mark for outline of measure of false memory	
	For example: Count the number of events correctly/incorrectly recalled = 1 Count the number of words in the story then take away the number that are false = 1 Record whether the children said they won or not = 1	
7(b)(i)	Suggest what the control condition should be in Liam's experiment.	1
	1 mark for suggestion of control condition	
	A condition/level of the IV where the is no reading from Liam's diary/where Liam's diary is true = 1	
7(b)(ii)	Explain why it is important to have a control condition in Liam's experiment.	2
	1 mark for identification of reason why a control condition is necessary in Liam's experiment 1 mark for detail (may be generic)	
	So that he can judge whether the children would forget/get muddled anyway = 1 (identification with link)	
	So that he can be sure that the errors are due to the (false) information given (from his diary) = 1 (detail)	
7(c)	Suggest <u>one</u> way that Liam could standardise his procedure.	2
	1 mark for suggestion about standardisation in Liam's experiment 1 mark for detail (e.g. how/why)	
	He should play the game in the same way/same amount of time = 1 (identification with link) e.g. making a winning move the same number of times = 1 (detail – how)	
	He should read the story in the same way = 1 (identification with link) so that he does not stress the false parts (making it easier for some children to spot) = 1 (detail – why)	
	He should leave the same gap between the game and the diary reading/the diary reading and recall = 1 (identification with link) so that they have equal time to forget/e.g. 5 minutes = 1 (detail – how)	

experiment as an example.         1 mark for explanation (may be generic)         1 mark for link         The same (group of) participants in all levels of the IV/conditions; All participants are tested both before and after eating = 1 (link)         8(d)(i)       Suggest how Olivia could counterbalance the conditions in her experiment.         1 mark for generic suggestion         1 mark for generic suggestion         1 mark for link         By having different groups of participants do the conditions in different orders = 1 (generic)         e.g. one group does 'before eating' one day and 'after eating' the next day and the other group does 'after eating' one day and 'before eating' the next day = 1 (link)		PUBLISHED	2019
concentrate better in class before or after eating. Her experimental design is a repeated measures design.           8(a)         Identify the independent variable (IV) in this experiment.         1           1 mark for identification of IV = when they eat/before or after eating (definitive)         1           8(b)         Identify the dependent variable (DV) in this experiment.         1           1 mark for identification of DV = concentration in class (definitive)         2           8(c)         Explain what is meant by a 'repeated measures design', using this experiment as an example.         2           1 mark for explanation (may be generic)         1 mark for ink         2           The same (group of) participants in all levels of the IV/conditions; All participants are tested both before and after eating = 1 (link)         2           8(d)(i)         Suggest how Olivia could counterbalance the conditions in her experiment.         2           a mark for generic suggestion         1 mark for generic suggestion         2           1 mark for generic suggestion         1 mark for link         2           By having different groups of participants do the conditions in different orders = 1 (generic)         2         3           e.g. one group does 'before eating' one day and 'before eating' the next day and the other group does 'after eating' one day and 'before eating the next day are ther group does 'after eating' one day and 'before eating the next day = 1 (link)         2	Question	Answer	Marks
1 mark for identification of IV = when they eat/before or after eating (definitive)         8(b)       Identify the dependent variable (DV) in this experiment.         1 mark for identification of DV = concentration in class (definitive)         8(c)       Explain what is meant by a 'repeated measures design', using this experiment as an example.         1 mark for explanation (may be generic)       1 mark for explanation (may be generic)         1 mark for group of) participants in all levels of the IV/conditions; All participants are tested both before and after eating = 1 (link)         8(d)(i)       Suggest how Olivia could counterbalance the conditions in her experiment.         1 mark for generic suggestion       1 mark for generic suggestion         1 mark for link       By having different groups of participants do the conditions in different orders = 1 (generic)         e.g. one group does 'before eating' one day and 'after eating' the next day and the other group does 'after eating' one day and 'before eating' the next day and the other group does 'after eating' one day and 'before eating' the next day and the other group does 'after eating' one day and 'before eating' the next day = 1 (link)         8(d)(ii)       Explain ong advantage of counterbalancing in this experiment.       2         1 mark for advantage (may be generic)       1 mark for link       2         1 mark for innk       It controls for order/fatigue/practice effects = 1 (generic)       e.g. if people were bored with the task the second time so idd not concentrate as much = 1 (link)	8	concentrate better in class before or after eating. Her experimental	
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1 mark for link       By having different groups of participants do the conditions in different orders = 1 (generic)       By having different groups of participants do the conditions in different orders = 1 (generic)         e.g. one group does 'before eating' one day and 'after eating' the next day and the other group does 'after eating' one day and 'before eating' the next day = 1 (link)       8(d)(ii)         8(d)(ii)       Explain <u>one</u> advantage of counterbalancing in this experiment.       2         1 mark for advantage (may be generic)       1 mark for advantage (may be generic)       2         1 mark for link       It controls for order/fatigue/practice effects = 1 (generic)       2         e.g. if people were bored with the task the second time so did not concentrate as much = 1 (link)       2         9       Huan is planning an interview about attitudes to mental illness.         9(a)(i)       Suggest <u>one</u> question that Huan could use to collect <u>guantitative</u> data.       1         1 mark for any closed question with answer options about mental health       1	8(d)(i)		2
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1 mark for advantage (may be generic)         1 mark for link         It controls for order/fatigue/practice effects = 1 (generic)         e.g. if people were bored with the task the second time so did not concentrate as much = 1 (link)         e.g. if people were better at the task by the second time so looked like they were concentrating more = 1 (link)         9       Huan is planning an interview about attitudes to mental illness.         9(a)(i)       Suggest <u>one</u> question that Huan could use to collect <u>quantitative</u> data.         1 mark for any closed question with answer options about mental health         How important is it to care about people with mental health problems, on a		orders = 1 (generic) e.g. one group does 'before eating' one day and 'after eating' the next day and the other group does 'after eating' one day and 'before eating' the next	
1 mark for link       1 mark for link         It controls for order/fatigue/practice effects = 1 (generic)       e.g. if people were bored with the task the second time so did not concentrate as much = 1 (link)         e.g. if people were better at the task by the second time so looked like they were concentrating more = 1 (link)         9       Huan is planning an interview about attitudes to mental illness.         9(a)(i)       Suggest one question that Huan could use to collect quantitative data.         1       nark for any closed question with answer options about mental health         How important is it to care about people with mental health problems, on a	8(d)(ii)	Explain <u>one</u> advantage of counterbalancing in this experiment.	2
<ul> <li>e.g. if people were bored with the task the second time so did not concentrate as much = 1 (link)</li> <li>e.g. if people were better at the task by the second time so looked like they were concentrating more = 1 (link)</li> <li>9 Huan is planning an interview about attitudes to mental illness.</li> <li>9(a)(i) Suggest <u>one</u> question that Huan could use to collect <u>quantitative</u> data.</li> <li>1 mark for any closed question with answer options about mental health</li> <li>How important is it to care about people with mental health problems, on a</li> </ul>			
9(a)(i)       Suggest one question that Huan could use to collect quantitative data.       1         1 mark for any closed question with answer options about mental health       1         How important is it to care about people with mental health problems, on a       1		e.g. if people were bored with the task the second time so did not concentrate as much = 1 (link) e.g. if people were better at the task by the second time so looked like they	
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How important is it to care about people with mental health problems, on a	9(a)(i)	Suggest <u>one</u> question that Huan could use to collect <u>quantitative</u> data.	1
		1 mark for any closed question with answer options about mental health	
How important do you think it is to care about people with mental health problems? = 0 (open)		scale of 1–10 (10 = care a lot)? = 1 How important do you think it is to care about people with mental health	

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Question	Answer	Marks
9(a)(ii)	Suggest <u>one</u> disadvantage of collecting quantitative data in Huan's study.	2
	1 mark for disadvantage (may be generic) 1 mark for link	
	It does not explain the 'why'/does not give in depth data/there is no chance to explain = 1 (generic)	
	so Huan would not know why people held those attitudes about mental health = 1 (link)	
9(b)	Suggest <u>one</u> question that Huan could use to collect <u>qualitative</u> data.	1
	1 mark for any open question (can be a statement that generates qualitative data)	
	Describe how you feel when you see a mentally ill person = 1 To what extent do you feel that we treat mentally ill people fairly? = 1	
9(c)	Explain <u>two</u> advantages of using an interview rather than a questionnaire in Huan's study.	4
	1 mark for advantage (may be generic) $\times$ 2 1 mark for link $\times$ 2	
	In an unstructured interview the researcher can respond to the interviewee's answers = 1 (generic) so Huan could discover more about individual's attitudes about mental health = 1 (link)	
	Interviewer can check the participant understands the question/that they understand the response = 1 (generic) so Huan would know his record of what the participant says about mental health is a valid reflection of their opinion = 1 link	
	Interviews tend to generate more qualitative data then questionnaires = 1 (generic) so the information about attitudes to mental health would be more detailed than from a questionnaire = 1 (link)	
9(d)	Huan is going to use opportunity sampling. Explain <u>one</u> disadvantage of using an opportunity sample in this study.	2
	1 mark for disadvantage (may be generic) 1 mark for link	
	They are unrepresentative/may be biased = 1 (generic disadvantage) so Huan's participants may be especially positive/negative/ignorant about mental health = 1 link	

	PUBLISHED	2019
Question	Answer	Marks
10	Fazli wants to study the relationship between kindness and obedience. He is not sure whether people who are more obedient will be more or less kind to others.	
10(a)	Describe how Fazli could conduct a correlational study to investigate this relationship. Your study must be ethical.	10
	<ul> <li>Three major omissions for a correlational study are:</li> <li>What: variable 1 (detail of operationalisation)</li> <li>What: variable 2 (detail of operationalisation)</li> <li>How: technique for producing/collecting data, i.e. procedure (e.g. tests, observations, questionnaires)</li> </ul>	
	<ul> <li>The minor omissions are:</li> <li>Where – location of participants when data is collected (e.g. clinics)</li> <li>Who – participants</li> </ul>	
	a statement about whether a positive or negative correlation is expected sampling technique	
	sample size description of how closed questions will be scored description of how data will analysed, e.g. use of scattergram ethical issues	
	Other appropriate responses should also be credited	
	Mark according to the levels of response criteria below:	
	<ul> <li>Level 3 (8–10 marks)</li> <li>Response is described in sufficient detail to be replicable (i.e. what and how)</li> <li>Response may have a minor omission (i.e. who or where)</li> <li>Use of psychological terminology is accurate and comprehensive</li> </ul>	
	<ul> <li>Level 2 (5–7 marks)</li> <li>Response is in some detail</li> <li>Response has minor omission(s) (i.e. who and/or where)</li> <li>Use of psychological terminology is accurate</li> </ul>	
	<ul> <li>Level 1 (1–4 marks)</li> <li>Response is basic in detail</li> <li>Response has major omission(s)</li> <li>If response is impossible to conduct max. 2</li> <li>Use of psychological terminology is mainly accurate</li> </ul>	
	Level 0 (0 marks) No response worthy of credit	

Question		Answer	Marks
10(b)	describe might be	one practical weakness/limitation with the procedure you have ed in your answer to part (a) and suggest how your study e done differently to overcome the problem. efer to ethics or sampling in your answer.	4
		will depend on problem identified. If the problem was an obvious i in <b>(a)</b> , fewer marks will have been awarded in <b>(a)</b> , so they can be here.	
	Problem	s may, for example, be matters of:	
	Validity • oper	ationalisation (of obedience and kindness)	
	• cons	y dardisation sistency (of measures of obedience and kindness) is not exhaustive and other appropriate responses should also be	
	Marks	Comment	
	3–4	Appropriate problem identified Appropriate solution is clearly described	
	2	Appropriate problem identified <i>plus</i> EITHER Explanation of why it is a problem OR Ineffectual but possible solution described	
	1	Appropriate problem identified	
		Little or no justification	