### MARK SCHEME for the May/June 2008 question paper

### 9698 PSYCHOLOGY

9698/01

Paper 1 (Core Studies 1), maximum raw mark 100

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2	Mark Scheme	Syllabus	Paper	ſ
		GCE A/AS LEVEL – May/June 2008	9698	01	
1	From the stu	udy by Loftus and Palmer on eyewitness testimon	y:		
	Summar Sma hit y cont 1 mark	<b>lescribe the quantitative results of the second exp</b> y of findings acceptable, but some may give numbers ashed yes = 16 smashed no = 34; es = 7 hit no = 43; rol yes = 6 control no = 44 partial, 2 marks expansion. (Figures not needed without figures must have full detail). Reproduction marks.	: for max mark,		
		s for findings of Experiment 1		(2)	
	Most like • qual • Nun • Less	t <b>one advantage of quantitative results.</b> ely: ntitative give numbers and statistics – can compare de nbers are objective; more scientific; s open to interpretation or bias. artial, 2 marks expansion.	ata;	(2)	[4
2	(a) What is Where p cultural b 1 mark p	view of studies on picture perception by Deregow a cross-cultural study? osychological phenomena are examined in people f background. Any explanation acceptable. partial definition, 2 marks expansion e.g. includes word o study or an example.	rom more than c		

#### (b) Describe the findings of one study included in the Deregowski review.

Any study (anecdotal or empirical) included in the Deregowski review. Includes reports by: Robert Laws; Mrs Fraser, 'other reports'; Hudson's studies on antelope/elephant/man, 'two-pronged trident', cube construction; preference for split-style.

1 mark partial description of study, 2 marks expansion. 0 mark for 'have no depth perception' as perception of pictures is key.

#### 3 The study by Baron-Cohen, Leslie and Frith on autism involved children. (a) Suggest *one* ethical issue that applies to the children in this study.

Note: question does not state guidelines that were broken. The question applies to all ethical issues, including those that were maintained. Most likely:

- Informed consent as children under 16 cannot give informed consent.
- They probably did not understand they had the right to withdraw.
- They were not deceived, or harmed. Confidentiality was maintained.
- Probably not debriefed as would not understand reason for study.

1 mark partial, 2 marks expansion.

(2)

(2) [4]

Page 3	Mark Scheme	Syllabus	Paper	
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Interest • To • Set • Ens • Set	<b>St why psychologists have ethical guidelines.</b> ing question. Any logical answer to receive credit. protect participant from harm; s standards for professionalism sures fundamental human rights are not violated; s boundaries for privacy and decency partial suggestion, 2 marks expansion.		(2)	[4]
<ul> <li>encourage</li> <li>One methem rei</li> <li>Anothem operant</li> <li>1 mark parti</li> </ul>	vo of the training methods which Gardner and Ga Washoe to use sign language. ethod was imitation – Washoe copied the Gardner's b nforced • method was behaviour shaping – successive a reinforcement. al description e.g. rewarded her or tickled her. bansion e.g. terms imitation (1 mark) and rewarded (1 m	ehaviour. Wash pproximations a	ре	[4]
(a) Briefly "the ch transfor max ma 1 mark	tudy by Samuel and Bryant on conservation: describe the fixed array condition. ildren saw no transformation being made but or mational display". Quote direct from article. Direct quarks. Drawings can receive credit. partial description e.g. 'not showed transformation' or 'o s expansion	lote not needed f		
"this wa in the o transfor have a	et one reason why this condition was included in the s to check that children who answered the post-transfer other two conditions did so by bringing over informat mational display". Quote direct from study. i.e. it is a control. Quote not needed for max mark. partial e.g. 'as a control' 2 marks explanation.	ormational correc ation from the pr	e-	[4]
children wa (a) Descrit	y by Bandura, Ross and Ross on aggression the is observed. be one of the categories of behaviour that was obse m: imitativo, physical: imitativo, vorbal: imitativo, pop	erved.		

Any from: imitative physical; imitative verbal; imitative non-aggressive verbal; mallet aggression; sits on bobo; punches bobo; non-imitative aggression; aggressive gun play.

1 mark for 1 word or 1 mark for partial answer. 2 marks for full category.

1 mark partial e.g. 'Physical aggression' even if example given.

2 marks full e.g. imitative physical aggression or aggressive gun play. (1+1)

(b) Suggest one way in which the reliability of any observation can be checked. Reliability checked by inter-rater reliability – two observers were used. In this study Correlation .89 between ratings. (coefficient not needed or reference to this study for 2 marks)

1 mark partial e.g. 'by inter-rater reliability'; 2 marks expansion, such as explanation of inter-rater reliability.

(2) [4]

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# 7 From the study by Hodges and Tizard (social relationships) both qualitative and quantitative data was gathered.

#### (a) Describe how qualitative data was gathered in this study.

Question asks about gathering data i.e. what and from whom, not the actual data. Most likely: qualitative data was gathered via:

- Interview with adolescent subject;
- Interview with mother (sometimes father);
- Questionnaires to various MAY have given qualitative data, but this needs to be explicit.

Standardised test (Rutter A or Rutter B) would not give qualitative data

1 mark partial such as one feature e.g. 'via interviews'.

2 marks expansion (two features) e.g. interview with adolescent'.

Interview with participant insufficient for 2 marks.

(2)

#### (b) Suggest one weakness of qualitative data.

Most likely:

- quantitative give no numbers and statistics cannot compare data;
- is subjective participant may lie, so less scientific;
- more open to interpretation or bias from experimenter.

1 mark partial e.g. 'it is bias' 2 marks expansion.

(2) [4]

#### 8 The case study of little Hans by Freud includes details of the 'giraffe episode'. (a) Briefly describe the 'giraffe episode'.

Quote direct from article:

"Hans was now able to communicate his wishes in regard to his mother. He did so, in what was still a distorted form, by means of the fantasy of the two giraffes. *Hans:* In the night there was a big giraffe in the room and a crumpled one, and the big one called out because I took the crumpled one away from it. Then it stopped calling out, and then I sat down on top of the crumpled one.

I (puzzled): What? A crumpled giraffe? How was that?

Hans: Yes. (He quickly fetched a piece of paper, crumpled it up and said) It was crumpled like that.

*I*: And you sat down on top of the crumpled giraffe? How? (*He again showed me by sitting down on the ground*)

*I*: Did you dream about the giraffe?

Hans: No, I didn't dream. I thought it. I thought it all. I'd woken up earlier.

I: What can it mean: a crumpled giraffe?"

1 mark partial i.e. gist of the episode, 2 marks expansion i.e. clear understanding. (2)

#### (b) Explain why this is evidence for the Oedipus complex.

The answer is – The boy's father and mother were the two giraffes. Hans sexually desires his mother and the sitting on the crumpled giraffe is said to represent Hans having sex with his mother.

1 mark partial explanation, 2 marks for answer with expansion.

(2) [4]

	Page 5	Mark Scheme	Syllabus	Paper	•
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	Give two wa Any two from Told is a Given fal Given fal Epi ign n Existence	by Schachter and Singer on emotion, participants ys in which participants were deceived. : (could be others too) study on vitamin supplements and vision – drug suprox se information regarding actual injection of adrenaline se descriptions of effects of adrenaline in epi misgroup ot deceived if they are told nothing; neither are control. e of Stooge is deception (behaving angrily or euphorica I, 2 marks expansion. Twice.	in;	ed. (2+2)	[
	<ul> <li>(a) Give one Most like</li> <li>Rich</li> <li>Ofte</li> <li>Rare</li> <li>Sam</li> <li>Can</li> </ul>	y Sperry (split brain) involved a small number of par e advantage of the case study method ely: ness and detail of the data gathered. n done over period of time = longitudinal, so changes ca e or unique behaviours can be studied in detail. nple may be self selecting – not chosen by researchers. provide qualitative and quantitative data. artial; 2 marks expansion.		(2)	
1	Most like May Gen Orig 1 mark p In the study (a) Name <i>t</i> w	<ul> <li>e limitation when generalising from a small number ely: not be representative of wider population eralising does not take into account individual difference inal sample may be different from those in wider popula artial, 2 marks full.</li> <li>by Raine, Buchsbaum and LaCasse vo of the cortical areas that were studied. from lateral prefrontal, medial prefrontal, parietal, or</li> </ul>	es tion	(2)	[
	<ul> <li>(b) Describe claiming Most like Quote fro <i>"Murdere</i> cortex, s abnorma found in When ad NGRI's le</li> <li>later</li> <li>left a</li> <li>gluc NGRI's h</li> <li>occij</li> <li>grea</li> </ul>	ach. No marks for sub-cortical areas. <b>e one difference in brain activity between the NGF</b> <b>g not guilty for reasons of insanity) and the control g</b> by: om article: er's were characterised by reduced glucose metabolism uperior parietal gyrus, left angular gyrus, and the corpu- al asymmetries of activity (left hemisphere lower than the amygdala, thalamus, and medial temporal lobe" lded to details from results section of the article: ess activity/lower glucose metabolism than controls in al and medial prefrontal cortical areas angular gyrus and bilateral superior parietal regions. ose metabolism in the corpus callosum higher activity/more glucose metabolism than controls in pital lobe glucose metabolism than normals ter right thalamic activity differential activity of glucose metabolism than controls in	<b>group.</b> In the prefron is callosum, wh right) were al	tal ile	
	<ul> <li>Muro lobe</li> <li>redu</li> </ul>	derers had relatively reduced left and greater activity in including the hippocampus. Iced left and greater right amygdala activity ter right thalamic activity © UCLES 2008		ral (2)	I

	Page 6	Mark Scheme	Syllabus	Paper
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12	<ul> <li>(a) Describe</li> <li>New</li> <li>70         <pre>psyc</pre> <li>Ender</li> <li>1 mark p</li> <li>2 marks</li> </li></ul>	ady by Haney, Banks and Zimbardo (prison simulate how participants were selected for the study. spaper ad wanting volunteers for psychological effects applicants given diagnostic interviews, and tech shological problems, medical etc. s with final sample of 24 participants. artial, e.g. only one feature e.g. 'newspaper ad' expansion i.e. includes two or more features. for details of arrest or initiation procedure.	s of prison life.	te (2)
	study. Most like New Volu May 1 mark p	<i>c one</i> weakness with the way participants were ly: spaper ad is restricted to those reading that newspape nteers have a number of personality characteristics; only appeal to those desperate to earn money! artial, 2 marks expansion. for limitation of sample such as 'all males' or 'all studen	er	ie (2) [4]
13	(a) Outline Most like Most like Intel Euge Colo More All re	by Gould on intelligence testing described the work one assumption made by Yerkes in relation to intell ly assumptions to be outlined: ligence testing at that time very poor; ligence is inherited; enics is good; bured people are inferior to whites; e recruits were literate than there actually was. ecruits could use a pencil artial, 2 marks expansion.		(2)
	Two pos • They • They impr	<b>whether the findings of the testing supported this</b> sible answers here: y did because they were biased! And 'facts' resulted. y didn't because they were unfair and biased. Time in oved, etc. yes or no', 2 marks for giving reason.	·	es (2) [4]
14	choose betw (a) Suggest Most like techniqu Wider: T • May • Labo Specific: • They • Rese	y Hraba and Grant measured racial preference by a yeen a black doll and a white doll. cone problem with this technique. ely: children have to choose black or white. It is e. Two types of answer: echnique of <i>self report/method</i> lead to false answers and demand characteristics pratory setting (use of dolls) lack ecological validity Use of forced choice: y cannot say both, or 'depends' or opt out. earchers make assumption that choice is actual preference artial, 2 marks expansion.	s a forced choic	

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Most like Hav wide usir usir	t an alternative way the choices of the children of ely: anything where there is not a forced choice. ring more question options; ening range of questions, 5 point scale; ng alternative method such as observation and watc ng 'real people' rather than dolls partial, 2 marks expansion.			[4
a number of Most likely: IQ test: Wec Wechsler me Rorschach tendency]; Drawings of	<b>y on multiple personality disorder, Thigpen and</b> <b>f tests. Briefly describe the findings of two of th</b> hsler-Bellevue Intelligence Scale, [white 110; black emory test [black = same as IQ; white = far above IC [white = anxiety & obsessive/compulsive traits Human Figures [white = repression, Black = regress = 12.5 cps, white & Jane 11 cps].	ese tests. 104]; 2]; , Black = hysteri		

Partial/full answer

0 marks	no answer <b>or</b> incorrect answer
1 mark	partially correct answer or correct but incomplete lacking sufficient detail or explanation
	to demonstrate clear understanding
2 marks	correct answer with sufficient detail/explanation to demonstrate clear understanding

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#### Section B

- 16 Psychological research is often carried out in laboratories. Some people would argue that this is the best place to conduct research but others would suggest it has a number of limitations.
  - (a) Briefly describe the procedure of your chosen study.

#### Dement and Kleitman (sleep and dreaming) Milgram (obedience) Tajfel (intergroup discrimination)

Most likely answers: (any appropriate answer receives credit):

Dement: P's arrive at lab, attached to EEG & go to sleep. Woken and asked to record dream.

Milgram: P's arrive, are deceived in many ways. Teacher & learner fake shocks 7 prods.

Tajfel: dots on screen or Klee/Kandinsky. Allocate points to in & out groups. No answer or incorrect answer.

Anecdotal evidence, general statements, minimal detail, minimal focus. (1-3)

Attempt to outline some of main aspects of procedure though with omission of detail or lack of clarity (comment with some comprehension). (4–6)

Main aspects of procedure identified and described in good detail. Outline is clear, focused and well expressed. Good selection of aspects of procedure. (7–10)

[max 10]

(0)

## (b) Describe how being in a laboratory helped the experimenter to control variables in your chosen study

Most likely answers: (any appropriate answer receives credit):

Dement: lab so room and bed always same; same doorbell; couldn't control alcohol caffeine.

Milgram: lab so room, personnel & equipment (generator) always same. Instructions and prods same as was Mr Wallace's screams.

Tajfel: presentation of dots or Klee/Kandinsky same. Instructions & experimenters & matrices.

No answer or incorrect answer.

Anecdotal description of controls, brief detail, minimal focus. (1–3)

Appropriate controls identified, description shows some understanding. Some detail and expansion of control. (4–6)

Appropriate controls identified. Description is clear, has good understanding, is focused and well expressed. Good detail each control explained fully. (7–10)

[max 10]

(0)

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your cl Most lik Adv – a study. Adv – F Disadv	are the advantages and disadvantages of using a nosen study? ely answers: (any appropriate answer receives credit): allows control over extraneous variables – distractions, allows control over extraneous variables – distractions, 's in lab volunteer – more likely to behave 'appropriatel – In lab so demand characteristics more likely. – study may be low in ecological validity.	laboratory to etc. Gives cre	
Disadv No ans Anecdo be inac	<ul> <li>controlling too many variables is reductionist and not wer or incorrect answer.</li> <li>tal description, brief detail, minimal focus. Very limited curate, incomplete or muddled.</li> <li>ed range but basic. Some understanding, some focus.</li> </ul>		(i tion may (1–3
OR adv Max ma Severa	antages or disadvantages only which are focused on quark of 5 if only advantages or disadvantages. advantages and disadvantages which are focused on or tion is good with reasonable understanding.		(4–
Some of Balance Descrip The arg	etail and expansion of key features. e of advantages and disadvantages which are focused of tion is detailed with good understanding and clear expro guments are well considered and reflect understanding	ession.	•
the spe	cific study.		8–1) max 1]
for you No ans	st one way in which data could have been gathere r chosen study and say how you think this might af wer or incorrect answer.	fect the results	
Descrip Some a Descrip	tal suggestion, brief detail, minimal reference to questic tion may be inaccurate, incomplete or muddled. ppropriate suggestions which are focused on question. tion shows some understanding. etail and expansion of aspects allowing generalisation.	nı.	(1-
Range Descrip	ark of 6 if effect on results not considered. of appropriate suggestions which are focused on questi tion is detailed with good understanding and clear expressions of	ession.	(4-

The changes are well considered and reflect understanding of the area in question.

Consideration of effect on results is appropriate.

(7–10) [max 10]

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17 Psychologists sometimes gather data about behaviour and experience by observing the ways in which people behave.

#### (a) Describe how observational data was gathered in your chosen study.

Rosenhan (sane in insane places)

#### Piliavin, Rodin and Piliavin (subway Samaritans)

#### Bandura, Ross and Ross (aggression)

Most likely answers: (any appropriate answer receives credit):

Rosenhan: pseudo-patients gain access to mental institutions then as participant observers record the behaviour of ward staff.

Piliavin, Rodin and Piliavin: on train, victim becomes ill or drunk. Observers in carriage record behaviour of passengers on train.

Bandura: children observed through one-way mirror in controlled observation. Behaviour recorded and inter-rater reliability applied.

No answer or incorrect answer.

Anecdotal evidence, general statements, minimal detail, minimal focus. (1–3) Attempt to outline how data was gathered though with omission of detail or lack of clarity (comment with some comprehension). (4–6)

Main aspects of data gathering identified and described in good detail. Outline is clear, focused and well expressed. (7–10)

[max 10]

(0)

#### (b) Describe the results of the observations in your chosen study.

Rosenhan: staff ignored patients, particularly nurses and attendants on wards. Behaviour recorded when pseudo-patients tries to talk to staff.

Piliavin, Rodin and Piliavin: different numbers obtained for ill & drunk, black and white.

Model not needed as participants helped, showing no diffusion of responsibility.

Bandura: children exposed to aggressive model were more aggressive. Boys more physically aggressive. Some opposite sex inhibition.

No answer or incorrect answer.

Anecdotal description of results, brief detail, minimal focus.

(0) (1–3)

Appropriate results identified, description shows some understanding. Some detail and expansion. (4–6)

Appropriate aspect identified. Description is clear, has good understanding, is focused and well expressed. Good detail each aspect explained fully. (7–10)

[max 10]

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disadva Indicativ Adv – th Adv – th Adv – b Adv – if Disadv Disadv Disadv Disadv Disadv No ansv Anecdo be inaco Increase OR adv Max ma	examples from antages of observ- re content: most lil nose being observ- ehaviour has no d controlled then ca – observed behav – lack of control m – observer bias/re – gaining access t – observing withou- ver or incorrect an tal description, bri- curate, incomplete ed range but basic antages or disadva- rk of 5 if only stree	vations? kely answers (an ed behave natura emand character an replicate and h viour may not be hay mean replicat liability of recordi o participant(s) a ut consent/other swer. ef detail, minima or muddled. c. Some understa antages only whi ngths or weaknes	y appropriate a ally – high ecolo- istics – no ethic ave reliability a repeated/behav- ion is difficult ing (resolved via nd situations ethical issues I focus. Very lin inding, some fo- ch are focused sses.	nswer receiv ogical validity s problems nd validity viour being o a inter-rater mited range. cus. on question	ves credit) v observed reliability) Descript	): may not (0)
Several Descrip Some d Balance Descrip The arg	advantages or dis tion is good with re etail and expansic of advantages or tion is detailed wit uments are well cific study.	sadvantages whice easonable under on of key features disadvantages v h good understar	ch are focused o standing. 3. vhich are focuso nding and clear	ed on questi expression.	on.	(6–7)
think the No answ Anecdo Descrip Some a Descrip Some d Max ma Range o Descrip	t one other way is might affect the ver or incorrect an tal suggestion, brid tion may be inaccu ppropriate sugges tion shows some u etail and expansion rk of 6 if effect on of appropriate sug- tion is detailed wit	ne results of the iswer. ef detail, minimal urate, incomplete stions which are f understanding. on of aspects, wit results not consi gestions which a h good understa	study. reference to que or muddled. ocused on ques h consideration dered. re focused on q nding and clear	uestion. stion. of effect on uestion. expression.	results.	(0) (1–3) (4–6)
	anges are well co eration of effect on			ding of the	area in c	uestion. (7–10) [max 10]