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	-
	GCE A/AS LEVEL – May/June 2008	9698	01	
From the stu	udy by Loftus and Palmer on eyewitness testime	ony:		
Summar Sma hit y cont 1 mark	lescribe the quantitative results of the second e y of findings acceptable, but some may give number ashed yes = 16 smashed no = 34; es = 7 hit no = 43; rrol yes = 6 control no = 44 partial, 2 marks expansion. (Figures not needer without figures must have full detail). Reproductio marks.	ers: ed for max mark, I		
	s for findings of Experiment 1		(2)	
Most like • quai • Num • Less	t one advantage of quantitative results. ely: ntitative give numbers and statistics – can compare nbers are objective; more scientific; s open to interpretation or bias. partial, 2 marks expansion.	adata;	(2)	
(a) What is Where p cultural b 1 mark p	view of studies on picture perception by Derego a cross-cultural study? osychological phenomena are examined in people background. Any explanation acceptable. partial definition, 2 marks expansion e.g. includes w o study or an example.	e from 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]

P	age 3	Mark Scheme	Syllabus	Paper	•
		GCE A/AS LEVEL – May/June 2008	9698	01	
(b)	Interestir To p Sets Ensu Sets	why psychologists have ethical guidelines. Ing question. Any logical answer to receive credit. In rotect participant from harm; In standards for professionalism The standamental human rights are not violated; In boundaries for privacy and decency The artial suggestion, 2 marks expansion.		(2)	[4
en • 1 r	One met One met then rein Another operant i mark partia	o of the training methods which Gardner and Ga Vashoe to use sign language. hod was imitation – Washoe copied the Gardner's be forced method was behaviour shaping – successive ap reinforcement. I description e.g. rewarded her or tickled her. ansion e.g. terms imitation (1 mark) and rewarded (1 m	ehaviour. Washc	e	[4]
) Briefly d "the chil transform max mar 1 mark p	Idy by Samuel and Bryant on conservation: lescribe the fixed array condition. Idren saw no transformation being made but on national display". Quote direct from article. Direct qu ks. Drawings can receive credit. artial description e.g. 'not showed transformation' or 'o expansion	ote not needed for		
(b)	"this was in the of transforn have a c	to check that children who answered the post-transform ther two conditions did so by bringing over informational display". Quote direct from study. i.e. it is a control. Quote not needed for max mark. artial e.g. 'as a control' 2 marks explanation.	rmational correct tion from the pre	e-	[4
ch	ildren was Describe Any fron	by Bandura, Ross and Ross on aggression the s observed. e one of the categories of behaviour that was obse n: imitative physical; imitative verbal; imitative non- inggression; sits on bobo; punches bobo; non-imi	rved. aggressive verba	al;	

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	,
	GCE A/AS LEVEL – May/June 2008	9698	01	
Give two w Any two from Told is a Given fa Given fa Epi ign Existen	y by Schachter and Singer on emotion, participant ays in which participants were deceived. m: (could be others too) a study on vitamin supplements and vision – drug supro alse information regarding actual injection of adrenaline alse descriptions of effects of adrenaline in epi misgroup not deceived if they are told nothing; neither are control ce of Stooge is deception (behaving angrily or euphoric ial, 2 marks expansion. Twice.	oxin; o	d. (2+2)	[4]
 (a) Give or Most lik Ric Oft Ration Sation Cation 	by Sperry (split brain) involved a small number of particle advantage of the case study method stely: chness and detail of the data gathered. en done over period of time = longitudinal, so changes are or unique behaviours can be studied in detail. mple may be self selecting – not chosen by researchers n provide qualitative and quantitative data. partial; 2 marks expansion.	can be recorded.	(2)	
Most lik Ma Ge Ori 1 mark 11 In the study	y not be representative of wider population neralising does not take into account individual differen- ginal sample may be different from those in wider popul partial, 2 marks full. y by Raine, Buchsbaum and LaCasse	ces	(2)	[4]
any two	two of the cortical areas that were studied. o from lateral prefrontal, medial prefrontal, parietal, o each. No marks for sub-cortical areas.	occipital, tempor	al, (2)	
claimin Most lik Quote f <i>"Murden cortex,</i> <i>abnorm found ir</i> When a NGRI's • late • left • glu NGRI's • occ • gre NGRI's • Mu lob	rom article: rer's were characterised by reduced glucose metabolis superior parietal gyrus, left angular gyrus, and the corp hal asymmetries of activity (left hemisphere lower that in the amygdala, thalamus, and medial temporal lobe" added to details from results section of the article: less activity/lower glucose metabolism than controls in eral and medial prefrontal cortical areas angular gyrus and bilateral superior parietal regions. cose metabolism in the corpus callosum higher activity/more glucose metabolism than controls cipital lobe glucose metabolism than normals eater right thalamic activity differential activity of glucose metabolism than controls inderers had relatively reduced left and greater activity e including the hippocampus. luced left and greater right amygdala activity eater right thalamic activity	group. In the prefrom tous callosum, wh in right) were all in	tal ile so	[4]
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	Page 6	Mark Scheme	Syllabus	Paper
		GCE A/AS LEVEL – May/June 2008	9698	01
12	 (a) Describe New 70 psyc End 1 mark p 2 marks 	ady by Haney, Banks and Zimbardo (prison simulate how participants were selected for the study. Aspaper ad wanting volunteers for psychological effects applicants given diagnostic interviews, and ter- chological problems, medical etc. Is with final sample of 24 participants. Inartial, 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	t one weakness with the way participants were ely: spaper ad is restricted to those reading that newspape inteers 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 Intel Eug Colo More All re	by Gould on intelligence testing described the work one assumption made by Yerkes in relation to intelled ely 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 partial, 2 marks expansion.		(2)
	Two pos • The • The impr	t whether the findings of the testing supported this sible answers here: y did because they were biased! And 'facts' resulted. y didn't because they were unfair and biased. Time ir roved, etc. yes or no', 2 marks for giving reason.		es (2) [4]
14	choose betw (a) Suggest Most lik techniqu Wider: T • May • Labo Specific: • The • Res	y Hraba and Grant measured racial preference by a veen a black doll and a white doll. t one problem with this technique. ely: children have to choose black or white. It is e. Two types of answer: echnique of self report/method 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 prefer- artial, 2 marks expansion.	s a forced choic	

Page 7	Mark Scheme	Syllabus	Paper	,
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Most like • Hav • wide • usir • usir	t an alternative way the choices of the children co ely: anything where there is not a forced choice. ing more question options; ening range of questions, 5 point scale; g alternative method such as observation and watchin g 'real people' rather than dolls partial, 2 marks expansion.			[
a number of Most likely: IQ test: Wec Wechsler me	on multiple personality disorder, Thigpen and C tests. Briefly describe the findings of <i>two</i> of thes nsler-Bellevue Intelligence Scale, [white 110; black 10 emory test [black = same as IQ; white = far above IQ]; [white = anxiety & obsessive/compulsive traits,	se tests.)4];		
-	Human Figures [white = repression, Black = regressic • 12.5 cps, white & Jane 11 cps].	on];		

Partial/full answer

0 marks	no answer or 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.

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)

(1 - 3)

Pag	e 9	Mark Scheme	Syllabus	Paper
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	your cho Most like Adv – al study. Adv – P' Disadv – Disadv – Disadv – No answ Anecdota	e the advantages and disadvantages of using a osen study? Iv answers: (any appropriate answer receives credit): lows 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. controlling too many variables is reductionist and not er or incorrect answer. al description, brief detail, minimal focus. Very limited urate, incomplete or muddled.	laboratory to etc. Gives cre y' realistic.	conduct dibility to
	Increase OR adva Max mar Several a Descripti Some de Balance Descripti The argu	d range but basic. Some understanding, some focus. ntages or disadvantages only which are focused on que k of 5 if only advantages or disadvantages. advantages and disadvantages which are focused on of on is good with reasonable understanding. tail and expansion of key features. of advantages and disadvantages which are focused of on is detailed with good understanding and clear express uments are well considered and reflect understanding fic study.	question. on question. ession.	(4– (6–
	for your No answ Anecdota	c one way in which data could have been gathere chosen study and say how you think this might af er or incorrect answer. al suggestion, brief detail, minimal reference to questic on may be inaccurate, incomplete or muddled.	fect the results	. (
	Some ap Descripti Some de Max mar Range o	propriate suggestions which are focused on question. on shows some understanding. tail and expansion of aspects allowing generalisation. k of 6 if effect on results not considered. f appropriate suggestions which are focused on questi on is detailed with good understanding and clear expre-		(1–

Description is detailed with good understanding and clear expression. 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.

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]

(0) (1–3)

Page 11		Mark Scheme	9		Syllabu	IS	Paper
	GCE A	AS LEVEL – May	/June 200)8	9698		01
disadva Indicativ Adv – tł Adv – tł Adv – tł Disadv Disadv Disadv Disadv Disadv Disadv No ansv Anecdo be inacc Increas OR adv Max ma Several Descrip Some d Balance	antages of observe content: most hose being observe haviour has no controlled then of observed beha - lack of control n - observer bias/r - gaining access - observing with ver or incorrect a tal description, b curate, incomplet ed range but bas antages or disad ink of 5 if only stra advantages or disad tion is good with etail and expans of advantages or	likely answers (an ved behave natur- demand characte can replicate and h aviour may not be may mean replica- eliability of record to participant(s) a out consent/other inswer. rief detail, minima- ie or muddled. ic. Some understa vantages only while engths or weakness isadvantages while reasonable under ion of key features or disadvantages while	y appropria ally – high ristics – no nave reliab repeated/k tion is diffic ing (resolve and situatio ethical issu l focus. Ve anding, som ich are focu standing. s. which are focu	ate answe ecological ethics pro ility and va behaviour cult ed via inte ns ues ery limited ne focus. used on qu used on qu	er receives of validity oblems alidity being obse er-rater relia range. De uestion.	credit): erved ma bility)	ay not (0)
Center of the speed of the spee	tion is detailed w juments are well cific study. It one other way is might affect to ver or incorrect a tal suggestion, bi tion may be inact ppropriate suggestion shows some etail and expans irk of 6 if effect of	ith good understa considered and of gathering da the results of the inswer. rief detail, minimal curate, incomplete estions which are f	nding and reflect und ta in your study. I reference or muddle focused on th consider idered.	clear expr lerstanding chosen s to questic ed. question. ation of ef	ession. g which ex study, and on.	say how	(8–10 [max 10
Descrip The cha	tion is detailed wanges are well o	ith good understa considered and re n results is approp	nding and offect unde	clear expr	ession.	a in que	stion. (7–10 [max 10