UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Advanced Subsidiary Level and GCE Advanced Level

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.

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	Page 2	Mark Scheme	Syllabus	Paper	,
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1	From the st	udy by Loftus and Palmer on eyewitness testimony	/:		
	Summar Sma hit y cont 1 mark answer worth 2	describe the quantitative results of the second exp y of findings acceptable, but some may give numbers: ashed yes = 16 smashed no = 34; res = 7 hit no = 43; trol yes = 6 control no = 44 partial, 2 marks expansion. (Figures not needed without figures must have full detail). Reproduction of marks. ks for findings of Experiment 1	for max mark,		
	Most like • qua • Nun • Less	t one advantage of quantitative results. ely: ntitative give numbers and statistics – can compare da nbers are objective; more scientific; s open to interpretation or bias. partial, 2 marks expansion.	ta;	(2)	[4]
2	(a) What is Where p cultural b 1 mark p	view of studies on picture perception by Deregows a cross-cultural study? osychological phenomena are examined in people fro background. Any explanation acceptable. bartial definition, 2 marks expansion e.g. includes word o study or an example.	om 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]

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Interestin • To p • Sets • Ensu • Sets	why psychologists have ethical guidelines. g question. Any logical answer to receive credit. rotect participant from harm; standards for professionalism tres fundamental human rights are not violated; boundaries for privacy and decency artial suggestion, 2 marks expansion.		(2)	[2
 encourage W One met then reint Another operant r 1 mark partial 	o of the training methods which Gardner and G Vashoe to use sign language. Nod was imitation – Washoe copied the Gardner's l Forced method was behaviour shaping – successive a einforcement. description e.g. rewarded her or tickled her. nsion e.g. terms imitation (1 mark) and rewarded (1 m	oehaviour. Wash approximations a	oe	[4
(a) Briefly d "the chil transform max mar 1 mark pa	dy by Samuel and Bryant on conservation: escribe the fixed array condition. dren saw no transformation being made but o national display". Quote direct from article. Direct q ks. Drawings can receive credit. artial description e.g. 'not showed transformation' or expansion	uote not needed		
"this was in the ot transform have a co	one reason why this condition was included in the to check that children who answered the post-transport two conditions did so by bringing over inform actional display". Quote direct from study. i.e. it is a pontrol. Quote not needed for max mark. artial e.g. 'as a control' 2 marks explanation.	formational correct ation from the p	re-	[4

6 In the study by Bandura, Ross and Ross on aggression the behaviour of the children was observed.

(a) Describe *one* of the categories of behaviour that was observed.

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]

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Give two wa Any two from Told is a Given fa Given fa Epi ign r Existence	y by Schachter and Singer on emotion, participal ys in which participants were deceived. (could be others too) study on vitamin supplements and vision – drug sup lse information regarding actual injection of adrenalin lse descriptions of effects of adrenaline in epi misgro to deceived if they are told nothing; neither are contr e of Stooge is deception (behaving angrily or euphor l, 2 marks expansion. Twice.	roxin; ne up ol.	ed. (2+2)	[
 (a) Give on Most like Rich Ofte Rare Sam 	y Sperry (split brain) involved a small number of e advantage of the case study method ely: iness and detail of the data gathered. in done over period of time = longitudinal, so changes e or unique behaviours can be studied in detail. inple may be self selecting – not chosen by researche provide qualitative and quantitative data.	s can be recorded.		
	partial; 2 marks expansion.		(2)	
 Orig 1 mark p In the study (a) Name tw any two 	eralising does not take into account individual differe inal sample may be different from those in wider pop artial, 2 marks full. by Raine, Buchsbaum and LaCasse vo of the cortical areas that were studied. from lateral prefrontal, medial prefrontal, parietal, each. No marks for sub-cortical areas.	ulation	(2) ral, (2)	
claiming Most like Quote fre <i>"Murdere</i> <i>cortex, s</i> <i>abnorma</i> <i>found in</i> When ac NGRI's I • later • left a • gluc NGRI's I	e one difference in brain activity between the N g not guilty for reasons of insanity) and the contro- ely: om article: er's were characterised by reduced glucose metabol superior parietal gyrus, left angular gyrus, and the co- al asymmetries of activity (left hemisphere lower th the amygdala, thalamus, and medial temporal lobe" ded to details from results section of the article: ess activity/lower glucose metabolism than controls i ral 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 pital lobe glucose metabolism than normals	ol group. lism in the prefron rpus callosum, wh nan right) were al	tal iile	

- reduced left and greater right amygdala activity
- greater right thalamic activity

Pa	ige 6	Mark Scheme	lynamicpaper: Syllabus	Paper	
	Ŭ	GCE A/AS LEVEL – May/June 2008	9698	01	
	Describ New 70 psyc End 1 mark p 2 marks	udy by Haney, Banks and Zimbardo (prison simulation e how participants were selected for the study. vspaper ad wanting volunteers for psychological effects applicants given diagnostic interviews, and test chological problems, medical etc. Is with final sample of 24 participants. partial, e.g. only one feature e.g. 'newspaper ad' expansion i.e. includes two or more features. for details of arrest or initiation procedure.	of prison life.	(2)	
(b)	study. Most like New Volu May 1 mark p	t one weakness with the way participants were s ely: vspaper ad is restricted to those reading that newspaper unteers have a number of personality characteristics; v only appeal to those desperate to earn money! partial, 2 marks expansion. for limitation of sample such as 'all males' or 'all student		(2)	[4
	Outline Most like Inte Eug Cold Mor All r	by Gould on intelligence testing described the work one assumption made by Yerkes in relation to intelli- ely assumptions to be outlined: lligence testing at that time very poor; lligence is inherited; enics is good; bured people are inferior to whites; re recruits were literate than there actually was. ecruits could use a pencil partial, 2 marks expansion.		(2)	
(b)	Two pos The The impli	t whether the findings of the testing supported this a ssible answers here: y did because they were biased! And 'facts' resulted. y didn't because they were unfair and biased. Time in roved, etc. yes or no', 2 marks for giving reason.	-	(2)	[4
cho	Nose betw Sugges Most lik techniqu Wider: T May Lab Specific: • The	by Hraba and Grant measured racial preference by as ween a black doll and a white doll. t one problem with this technique. tely: children have to choose black or white. It is tely: children have to choose black or white. It is te. Two types of answer: Technique of self report/method y lead to false answers and demand characteristics oratory setting (use of dolls) lack ecological validity to use of forced choice: y cannot say both, or 'depends' or opt out.	a forced choice		

- Researchers make assumption that choice is actual preference.
- 1 mark partial, 2 marks expansion.

(2)

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Most like Most like Hav wide usir 1 mark p 15 In the study a number of Most likely: IQ test: Wec Wechsler me Rorschach tendency];	t an alternative way the choices of the children cou 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. on multiple personality disorder, Thigpen and Cl f tests. Briefly describe the findings of <i>two</i> of thes hsler-Bellevue Intelligence Scale, [white 110; black 10- emory test [black = same as IQ; white = far above IQ]; [white = anxiety & obsessive/compulsive traits, I	uld be measured og the children pla eckley carried o e tests. 4]; Black = hysterio	d. ay; (2)	[4]
EEG [black = 1 mark partia	Human Figures [white = repression, Black = regression = 12.5 cps, white & Jane 11 cps]. al e.g. naming test and 1 mark finding. Twice. er on IQ test' then 2 marks as identifies test and result	-	(2+2)	[4]

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. (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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(c) What your c Most lii Adv – study. Adv – I Disadv Disadv Disadv No ans Anecdo be inac Increas OR ad Max m Severa Descrij	GCE A/AS LEVEL – May/June 2008 are the advantages and disadvantages of using a hosen study? kely answers: (any appropriate answer receives credit): allows control over extraneous variables – distractions, P'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 wer or incorrect answer. otal description, brief detail, minimal focus. Very limited curate, incomplete or muddled. variages or disadvantages only which are focused on quark of 5 if only advantages or disadvantages. I advantages and disadvantages which are focused on quark of 5 if only advantages or disadvantages. I advantages and disadvantages which are focused on quark of 5 if only advantages or disadvantages which are focused on quark of 5 if only advantages or disadvantages which are focused on quark of 5 if only advantages and disadvantages which are focused on quark of 5 if only advantages or disadvantages which are focused on quark of 5 if only advantages or disadvantages which are focused on quark of 5 if only advantages and disadvantages which are focused on quark of 5 if only advantages and disadvantages which are focused on quark of 5 if only advantages and disadvantages which are focused on quark of 5 if only advantages and disadvantages which are focused on quark of 5 if only advantages and disadvantages which are focused on quark of 5 if only advantages and disadvantages which are focused on quark of 5 if only advantages which are focuse	9698 Iaboratory to cor etc. Gives credibi y' realistic. range. Descriptior uestion. question.	01 nduct lity to (0)	
Descrij The ar the spe	otion is detailed with good understanding and clear expr guments are well considered and reflect understanding cific study.	ession. g which extends be	(8–10) [max 10]	
for you	r chosen study and say how you think this might af			
	wer or incorrect answer.		(0)	
Descrij Some	otal suggestion, brief detail, minimal reference to questic otion may be inaccurate, incomplete or muddled. appropriate suggestions which are focused on question.	ın.	(1–3)	
Some Max m Range Descrij	otion shows some understanding. detail and expansion of aspects allowing generalisation. ark of 6 if effect on results not considered. of appropriate suggestions which are focused on questi otion is detailed with good understanding and clear expr anges are well considered and reflect understanding of	ession.	(4–6)	
	eration of effect on results is appropriate.		 (7–10) [max 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)

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(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)

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disadva Indicativ Adv – th Adv – be Adv – if Disadv – happen Disadv – Disadv –	examples from ntages of observe e content: most lil ose being observe haviour has no d controlled then ca observed behav lack of control m observer bias/re	your chosen vations? kely answers (an ed behave natura emand character in replicate and h iour may not be ay mean replicat liability of recordi	study, y approp ally – higl istics – r ave relia repeated ion is diff ng (resol	what riate ar h ecolo bo ethic bility ar d/behav ficult lved via	nswe ogical s pro nd va viour	the r rece validi blema alidity being	advantag ives credit ity s observed	jes and): may not
Disadv – No answ Anecdot be inacc Increase OR adva Max mai Several	gaining access to observing without er or incorrect an al description, brie urate, incomplete d range but basic intages or disadva k of 5 if only strer advantages or dis	ut consent/other e swer. ef detail, minimal or muddled. c. Some understa antages only whi ngths or weaknes advantages whic	ethical is: focus. ' nding, so ch are fo sses. ch are foo	sues Very lin ome foo cused o cused o	cus. on qu	uestio	n.	(0) tion may (1–3) (4–5)
Some de Balance Descript The argu	ion is good with re stail and expansion of advantages or ion is detailed with uments are well of ific study.	n of key features disadvantages w h good understar	s. vhich are nding and	focuse d clear	expre	essior	ı.	(6–7) beyond (8–10) [max 10]
think thi No answ Anecdot	t one other way is might affect th eer or incorrect an al suggestion, brid ion may be inaccu	ne results of the swer. ef detail, minimal	study.	e to qu		•	and say I	now you (0) (1–3)

Description may be inaccurate, incomplete or muddled.	(1
Some appropriate suggestions which are focused on question.	

Description shows some understanding.

Some detail and expansion of aspects, with consideration of effect on results.

Max mark of 6 if effect on results not considered.

Range of appropriate suggestions which are focused on question.

Description is detailed with good understanding and clear expression.

The changes are well considered and reflect understanding of the area in question. (7 - 10)

Consideration of effect on results is appropriate.

[max 10]

(4-6)