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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

MARK SCHEME for the May/June 2007 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 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

ı	Page	e 2			Mark S	cheme			Syllab	ous	Q.
	. ug	<i>-</i>	G	CE A/AS			une 2007		969	8	80
cti	on A	<u> </u>				•		1			PapaCar
F	rom	the stud	ly by Loft	us and P	almer or	n eyewitne	ess testimor	ny:			
(;	a) B	Briefly de	scribe the	e results	of the se	econd exp	periment.				
	F s	People in mashed	all three	groups s t broken	saw brok glass. N	en glass	6. NO: sma that did not not needed	exist. 7	Those red		44. [2]
(1	b) S	Suggest	an explar	ation for	these re	sults.					
	2 a	the que not the contract the co		d you see on.	e broken		id participan so leading h				
2 F	rom	the revi	ew of stu	dies on p	icture pe	erception	by Deregow	vski:			
(a	a) [Describe	the findin	gs from	one stud	ly.					
	۵ t	Any of Huwo-prong	ly: Any fro udson's s ged trider artial, 2 m	tudies: m nt; split-st	nan/antel tyle elepl	ope/elepl	.'. hant; constr	ruct 'cub	e';		[2]
(1	b) V	Vhat car	be conc	uded ab	out pictu	re percep	otion from th	nis study	<i>י</i> ?		
			ly: picture	percepti	ion is lea	rned; pic	tures canno	ot be use	ed as ling	gua	
		ranca. mark pa	artial, 2 m	arks full.							[2]
		study b tions.	y Baron-0	Cohen, L	eslie and	d Frith on	autism the	childrer	ı were as	sked fou	r
(a	a) lo	dentify t v	wo questi	ons used	d as cont	rols.					
	T u	he nami	•	y and me vas going	emory qu g on.	estions w	d not a cont vere controls		ure the c	children	[2]
(1	b) V	Vhy were	e the child	dren aske	ed contro	ol questio	ns?				

Most likely: to determine whether the children understood the procedure.

[2]

[4]

To eliminate extraneous variables/confounding. 1 mark partial, 2 marks full.

				The same		
	Pa	ge 3	Mark Scheme	Syllabus	2	r
			GCE A/AS LEVEL – May/June 2007	9698	Day .	
4	The	study by	Gardner and Gardner on Washoe was conducted in a	Syllabus 9698 laboratory.	di	18.
	(a)	Suggest	one reason why this was an advantage.			1dge
			ely answers: same as for any lab experiment. Control opartial e.g. 'control over variables', 2 marks basic with e	•	[2]	
	(b)	Suggest	one problem with studying animals in a laboratory.			
		chimpan	ely answer: behaviour is not natural/low in ecological va zee not in wild. Also unethical – no right to withdraw of partial, 2 marks full.	-	[2]	[4]
5	Fro	m the stu	dy by Samuel and Bryant on conservation:			
	(a)		he main difference between the children's responses to n', compared to the 'two question condition' (Piaget's or	-		
		materials No mark	ely answers: there were fewer errors in the one questions than the two question condition. Is for differences in procedure (Q states responses). Is partial, 2 marks full.	n condition for all	[2]	
	(b)	Suggest	one reason for this difference.			
		Most like	ely answer: children are less confused when they are as	sked only one		
		•	partial, 2 marks expansion.		[2]	[4]
6			Bandura, Ross and Ross on aggression found a numbour of participants.	per of differences		
	(a)	Outline o	one difference in behaviour between the male and the fants.	female		
		verbally aggressi males w	ely answers: 1. females less physically aggressive; 2. f aggressive, particularly with female model. 3. females ion than males with female model. 4. females punch be hen with male model. 5. females less aggressive gun programment of the formal one correct statement. 1 mark 'males more ag	more mallet obo more than olay than males.	[2]	
	(b)	Suggest	one explanation for this difference in behaviour.			
		males ar aggressi	n is speculative and any appropriate answer is acceptal nd females are brought up differently; males more pred ion (Bandura quote). partial, 2 marks expansion.	-	[2]	[4]
		ι παικ μ	ariai, 2 mario oxpanoion.		(-)	[-1

om the stu
(a) What did
teachers credit ar NB: 1 m Rated as popular) Less ofte Often les Significa More like Trying m

Teachers may not know what the children are really like out of school; may give biased responses. Other suggestions acceptable.

1 mark partial, 2 marks full.

[2] **[4]**

Freud wrote that the case study of little Hans provided support for the Oedipus complex. Outline **two** pieces of evidence from the study that support Freud's theory of the Oedipus complex.

Most likely: Any evidence related to Oedipus complex: suggestions to mother, giraffe episode, father grandfather story. 1 mark partial, 2 marks full, twice.

[2+2] **[4]**

- **9** One study by Dement and Kleitman looked at the relationship between eye movements and dream content.
 - (a) Briefly describe the dream content for one participant.

P1: standing at bottom of cliff operating hoist and looking at climbers;

P2: climbing ladders and looking up and down;

P3: throwing basketballs at a net;

P4: two people throwing tomatoes at each other;

P5: driving a car then speeding car from left.

Any one correct response = 2 marks.

[2]

(b) What did Dement and Kleitman conclude about the relationship between eye movements and dream content?

Most likely:

- 1. four main patterns: mainly vertical; mainly horizontal; vertical and horizontal; little or no movement.
- 2. dream content does correspond to eye movements during sleep.

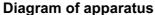
1 mark brief e.g. there is a relationship. 2 marks elaboration such as example.

[2]

[4]

Page 5	Mark Scheme	Syllabus
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0 From the stu	dy by Sperry (split brain):	Calific
(a) Briefly d	escribe the apparatus used by Sperry.	Tide
	Diagram of apparatus	·COM
	1	

- **10** From the study by Sperry (split brain):
 - (a) Briefly describe the apparatus used by Sperry.





1 mark for each piece of equipment: one eye covered; gaze centred on fixation point; stimuli presented on 35mm transparencies for 1/10th of a second or less. Objects.

[2]

(b) Suggest why Sperry refers to the left hemisphere as 'the dominant hemisphere'.

Most likely: left hemisphere contains language centres; finger-jump test. 2 marks for language centres.

[2] [4]

- **11** In the study by Milgram on obedience:
 - (a) How did the experimenter try to prevent participants from withdrawing from the study?

Most likely: 1. use of prods e.g. "please continue"; "the experiment requires that you go on"; "it is absolutely essential that you continue"; "you have no other choice, you must go on". 2. Less likely but also credit things like payment, done in prestigious university.

1 mark partial (e.g. 'use of prods'), 2 marks elaboration (e.g. 'use of prods such as please continue').

[2]

(b) Why are participants given the right to withdraw from psychology experiments?

Most likely: unethical to detain them against their wishes for 1 mark and elaboration e.g. they may suffer harm if they don't for 2 marks.

[2] [4]

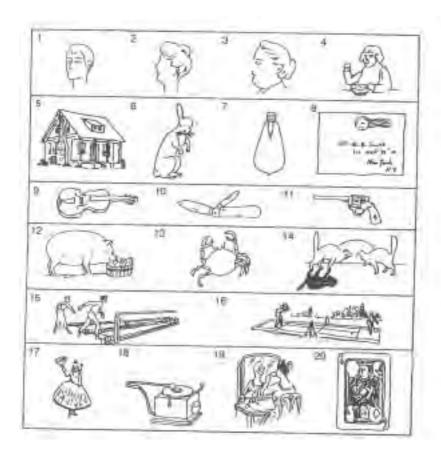
				The state of the s		
	Pa	ge 6	Mark Scheme	Syllabus	2.	r
			GCE A/AS LEVEL – May/June 2007	9698	Don'	
12	Piliavin, Rodin and Piliavin made a number of conclusions about subway Samarita (a) Describe one conclusion from the study.		Syllabus 9698 out subway Samaritans.	di	Abrido	
		List of 5 1. An indappears 2. Given likely to 1 3. Given more free 4. No diffin coming the effect 5. The loimpact a that indiv (iii) the more than their behind the complex of the complex	conclusions (direct quotes) lividual who appears to be ill is more likely to rece to be drunk, even when the immediate help need mixed groups of men and women, and a male via help than are women. mixed racial groups, there is some tendency for a quent, especially when the victim appears drunk if fusion of responsibility was found, i.e. help is not ag from larger as compared to smaller groups of be to it is in the opposite direction. Inger the emergency continues without help being model has on the helping behaviour of observers widuals will leave the immediate area in order to a more likely it is that observers will discuss the incice	eive help than one who led is of the same kind. ctim, men are more same-race helping to be rather than ill. less frequent or slower ystanders; if anything g offered (i) the less s, (ii) the more likely it is void the situation and dent and implications for		
	(b)	Describe	the evidence for this conclusion.			
			e from study to match with one of the five conclus partial, 2 marks elaboration.	ions above.	[2]	[4]
13	Acc	ording to	Tajfel (intergroup discrimination):			
	(a)	What is t	the cause of intergroup discrimination?			
		Typically	(or more) groups that are different from each other in-group and out-group. partial (e.g. 'categorisation'), 2 marks elaboration (•	[2]	
	(b)	Suggest	one way in which intergroup discrimination may be	be reduced.		

Most likely: Any psychological suggestion that is possible (e.g. jigsaw technique). 1 mark partial, 2 marks elaboration.

[2]

[4]

Page 7	Mark Scheme	Syllabus
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participants	by Gould, army recruits were given the beta test whe drawing parts missing from pictures. Draw two examples the part is missing from each of your drawing the part is missing from each of your drawing the part is missing from each of your drawing the part is missing from each of your drawing the part is missing from each of your drawing the part is missing from each of your drawing the part is missing	amples of these
		.8.



1 mark for correct drawing and 1 mark for missing part. Twice. 1 mark for drawing only or verbal description only.

[2+2] [4]

15 All studies in psychology raise ethical issues. Outline two ethical issues raised in the study by Rosenhan (sane in insane places).

Most likely:

Confidentiality: hospitals and participants were not named.

Deception: hospitals and doctors were deceived.

Consent: hospitals and doctors did not consent.

Harm: hospitals and doctors may have been psychologically harmed.

Right to withdraw not applicable. Doctors cannot withdraw from their job.

No credit for anything related to pseudo-patients as they knew what to expect.

1 mark ethical issue OR reason, 2 marks issue plus explanation, twice.

[4] [2+2]

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Section B

- 16 One common way of collecting data in psychology is to ask participants questions and then analyse the answers. Such data are referred to as a self report measure.
 - (a) Describe the procedure of your chosen study.

Hraba and Grant (doll choice)
Thigpen and Cleckley (multiple personality disorder)
Schachter and Singer (emotion)

Hraba: children given 8 questions to determine racial awareness, identification and preference. Use of 4 dolls identically dressed. Children forced to choose a doll in response to the question.

Thigpen: use of many methods to gather data: over 100 hours of interviews, also hypnosis, psychometric and projective tests.

Schachter: longest procedure: injections; creation of cognition; rooms with euphoric or angry stooge.

No answer or incorrect answer.	[0]
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 findings.	[7-10]
	[max. mark: 10]

(b) Describe the self report measure that was used in your chosen study.

Hraba: forced choice response (doll choice) in relation to question asked.

Thigpen: interviews with different personalities.

Schachter: completion of questionnaire at end of study. Two critical questions asked.

No answer or incorrect answer.	[0]
Anecdotal description of self report measure, brief detail, minimal focus.	[1-3]
Appropriate aspect identified, description shows some understanding. Some detail	
and expansion of self report measure.	[4-6]
Appropriate aspect identified.	
Description is clear, has good understanding, is focused and well expressed.	
Good detail, each aspect of self report measure explained fully.	[7-10]
	[max. mark: 10]

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	our chosen study as an example, what are the strengort measures?	oths and weaknesses of Rhyhrid
Indicative conte	nt: Most likely answers (any appropriate answer re	eceives credit):
Strength : particip	pants given opportunity to express their feeling and e	explain their behaviour.
Strength: quality	and richness of data gained. Not limited to quantita	itive.
Strength: particip	pants are less likely to drop out of the study.	

Strength: participants are less likely to drop out of the study. Weakness: data may be unique and not comparable to others. Weakness: participants may provide socially desirable responses. Weakness: participants may respond to demand characteristics.

No answer or incorrect answer.	[0]
Anecdotal description, brief detail, minimal focus. Very limited range. Description	
may be inaccurate, incomplete or muddled.	[1-3]
Advantages and disadvantages which are focused on the question, are	
psychologically informed but lack detail, elaboration or example.	[4-5]
Advantages and disadvantages which are focused on the question and are	
psychologically informed. There is reasonable detail with some elaboration or	
examples. Discussion becoming clear and shows some understanding.	
Half marks for advantages or disadvantages only.	[6-7]
Range of advantages and disadvantages (4 or more) which are focused on the	
question and are psychologically informed. There is good detail with elaboration	
and examples. Discussion is good and shows understanding.	[8-10]
	[max. mark: 10]

(d) Suggest how one other method could be used to investigate your chosen study and say how this would affect the results of the study.

No answer or incorrect answer.	[0]
Anecdotal suggestion, brief detail, minimal reference to question.	
Description may be inaccurate, incomplete or muddled.	
There may be no reference to effect on results.	[1-3]
Some appropriate suggestions which are focused on question.	
Description shows some understanding.	
Some detail and expansion of aspects, with some consideration of effect on results.	
Max. mark of 6 if no effect on results.	[4-6]
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.	
Consideration of effect on results is appropriate.	[7-10]
	[max. mark: 10]

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- 17 Psychological research is often carried out on a restricted sample of participants. For example, some studies use children, some studies use students and some studies use those who have charged with murder.
 - (a) Outline the main findings of your chosen study

Samuel and Bryant (conservation)
Haney, Banks and Zimbardo (prison simulation)
Raine, Buchsbaum and LaCasse (brain scans)

Indicative content:

S&B: age: children under 7 years can conserve, but fewer errors, the older the child.

Question: fewer errors with one question compared to two question.

Materials: best on number, better on mass and most errors on volume.

HBZ: situational rather than dispositional; events: e.g. planned escape. Release of prisoners after 36 hours and stopping after 6 days. The behaviour of guards with examples: and pathology of power. Behaviour of prisoners: powerlessness, emasculation, etc: pathological prisoner syndrome.

R,B&L: NGRIs, compared to controls:

Had lower glucose metabolism in prefrontal, parietal areas and corpus callosum.

No difference in temporal areas. Higher in occipital.

Greater activity on right in thalamus.

Amygdala and hippocampus: less activity in the left and more activity in the right.

Cingulate, Caudate, Putamen, Globus Pallidus, Midbrain and cerebellum – no significant differences.

No answer or incorrect answer.	[0]
Anecdotal evidence, general statements, minimal detail, minimal focus.	[1-3]
Attempt to outline some of main findings though with omission of detail or lack of	
clarity (comment with some comprehension).	[4-6]
Main findings identified and described in good detail. Outline is clear, focused and	
well expressed. Good range of findings.	[7-10]
· · · · · · · · · · · · · · · · · · ·	[max. mark: 10]

(b) Describe the sample of your chosen study and say how the participants were selected.

Indicative content:

S&B: 252 boys and girls between the ages of five and eight-and-a-half. From schools and playgroups in and around Crediton, Devon. They were divided into four age groups of 63 children, whose mean ages were: Group 1: five years three months, Group 2: six years three months, Group 3: seven years three months, Group 4: eight years three months.

HBZ: Newspaper advert; payment \$15 per day; screened and 24 selected. Randomly allocated prisoner and guard. All students, male and mainly white from USA.

R,B&L: 41 NGRIs 39 male and 2 female. 14 were black, 27 were white. Mean age: 34.3 years. Reasons for referral were: 6 schizophrenia, 23 head injury, 3 psychoactive substance abuse, 2 affective disorder, 2 epilepsy, 3 hyperactivity and learning disability, 2 paranoid personality disorder. Controls matched on age 31.7 years, gender and schizophrenia. None of these people had any history of or convictions for violent behaviour.

No answer or incorrect answer.	[0]
Anecdotal description of sample and sampling technique, brief detail, minimal	
focus.	[1-3]
Appropriate sample and sampling technique identified, description shows some	
understanding. Some detail and expansion.	[4-6]
Appropriate sample and sampling technique described.	
Description is clear, has good understanding, is focused and well expressed.	
Good detail and sample and sampling technique explained fully.	[7-10]
	[max. mark: 10]

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(c) Using your chosen study as an example, what are the advantages and disadvantages using restricted samples of participants in psychological studies?

NB: two or more advantages and disadvantages should be considered.

Possible answers (any appropriate answer receives credit):

Adv: participants are available and willing. E.g. may be students (course credits) or may be volunteers (paid).

Adv: more likely to do unethical things without question.

Adv: may be limited numbers and type e.g. male; can be used as pilot study before generalising; can stimulate further research.

Adv: are a control in that other variables (e.g. feminine things) are eliminated.

Disadv: more likely to conform/consent/show demand characteristics if they are paid/receive course credits/will get off murder.

Disadv: cannot generalise to other groups the restricted sample does not represent.

Disadv: it is reductionist in that the sample may never be isolated in such a way from real life.

No answer or incorrect answer.	[0]
Anecdotal description, brief detail, minimal focus. Very limited range. Description	
may be inaccurate, incomplete or muddled.	[1-3]
Advantages and disadvantages which are focused on the question, are	
psychologically informed but lack detail, elaboration or example.	[4-5]
Advantages and disadvantages which are focused on the question and are	
psychologically informed. There is reasonable detail with some elaboration or	
examples. Discussion becoming clear and shows some understanding.	
Half marks for advantages or disadvantages only.	[6-7]
Range of advantages and disadvantages (4 or more) which are focused on the	
question and are psychologically informed. There is good detail with elaboration	
and examples. Discussion is good and shows understanding.	
Half marks for advantages or disadvantages only.	[8-10]
	[max. mark: 10]

(d) Suggest a different sample for your chosen study and say what effect, if any, this would have on the results.

No answer or incorrect answer.	[0]
Anecdotal suggestion, brief detail, minimal reference to question.	
Description may be inaccurate, incomplete or muddled.	
There may be no reference to effect on results.	[1-3]
Some appropriate suggestions which are focused on question.	
Description shows some understanding.	
Some detail and expansion of aspects, with some consideration of effect on	
results.	
Max. mark of 6 if no effect on results.	[4-6]
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.	
Consideration of effect on results is appropriate.	[7-10]
	[max. mark: 10]