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

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



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Page 2	Mark Scheme	Syllabus	Paper	
	GCE A/AS LEVEL – October/November 2007	9698	01	
ection A				
From the	e study by Loftus and Palmer (eyewitness testimony):			
Mos stud 1 ma	fly describe the sample of participants in experiment 1 i likely: Experiment 1: 45 students divided into 5 groups ents divided into 3 groups. All from the Univ at which Loftu ark identification e.g. numbers, 2 marks description (or sec bects = 2 marks	s. Experiment 2 s worked.	: 150 (2)	
Mos	one problem with using a restricted sample of partici likely: cannot generalise	-	h ni o f	
	ark identification of problem (e.g. cannot generalise) ription of problem (reason why cannot generalise).), 2 marks for	brief (2)	I
From the	e study by Deregowski on picture perception:			
Qua	v a split-style elephant. ity of drawing unimportant. 1 mark if split-style 1 mark fo rent features e.g. 2 legs and 2 ears, etc. 1	or including two c	of two (2)	
Mos taug How	gest why most societies do not prefer split style drawi i likely: can't be used for construction/by industrial draft to perceive 'perspective style'. Perspective style is ho else could we look at an elephant! ark partial, 2 marks full.	ftsmen. Childrer		[
	dy by Baron-Cohen, Leslie and Frith on autism invo nce levels of three groups of children.	olved measuring	g the	
Mos calc Deta marl	was intelligence measured? i likely: by matching MA (mental age) with CA (chu ulating using a formula. This answer = 2 marks. MA o ils of specific tests not required. (but if they do, naming is. Tests = Leiter international performance scale bulary test.	or CA only = 1 r either test receiv	mark. ves 2	
	irk partial, 2 marks full.		(2)	
	were the intelligence levels of the children measured			
	sured to determine whether theory of mind is due to intellig irk partial, 2 marks full.	gence.	(2)	

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Pa	age 3	Mark Scheme	Syllabus	Paper	
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Fro	om the stu	udy by Bandura, Ross and Ross on aggression:			
(a)	-	lescribe the procedure in the aggressive condition			
		ely answers:			
		th Tinker toys then sat on bobo & punched in nose; h n air; kicked around room. Repeated 3 times and to			
		d with verbal aggression: pow, etc.			
		ription of procedure could begin with potato prints etc ull credit as it did happen to those in aggressive condi		this to	
		artial, 2 marks full.		(2)	
(b)		t why it is important to standardise a procedure.			
		a control; same for all participants. DV more like	ly due to IV ar	nd not	
	confound			(2)	-
	1 mark p	artial, 2 marks full.		(2)	[
	their stuc air parents	ly by Hodges and Tizard interviewed the ex-instit s.	utional childre	n and	
(a)		as the difference between what the children s said about having a special friend?	said and what	their	
		ely answers: 16 children said they had a definite spe children had a special friend.	cial friend; 10 pa	arents (2)	
(b)	Give on	e explanation for this difference.			
. ,	Most like	ly answers: children may be giving a socially desirable	e answer, but pa	arents	

may not know about a special friend. 1 mark partial, 2 marks full.

(2) [4]

6 From the study by Schachter and Singer on emotion:

(a) What are the *two* factors in their two-factor theory of emotion? Arousal or physiological component and cognitive or psychological component. 'Situation' is incorrect. It is cognitive interpretation of situation. 1 mark for each component. (1+1)

(b) How do Schachter and Singer suggest we experience emotion. Emotion is not purely physiological as first thought. Emotion is the results of interaction between physiological and psychological. 1 mark brief expansion of two factors, 2 marks reasonable explanation showing understanding. (2) [4]

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From the st	udy by Dement and Kleitman on sleep and dreamir	ng:		
	escribe how they used the self report method to g	ather data.		
	participants and asked to recall various aspects rief, 2 marks detail.		(2)	
Most like	e problem with self report data in this study. ely: Not accurate, subjective. P's may respond to de e socially desirable responses; may just make up o detail.			
in one body Any logical a Objects sho Specifically i verbalised bu	ests hemispheric de-connection (split brain) is lil Give two pieces of evidence to support this sugg nswer, but most likely: where to one side of brain will not be recalled or acconnages shown to LVF cannot be verbalised. Images at not recognised by other side. I, 2 marks full.	gestion.	side.	
	idy by Raine, Buchsbaum and LaCasse on brain s	0000C	()	
From the St	ity by Rame, Buchsbaum and LaCasse on brain s	cans.		
Cortical:	one cortical region and one subcortical region of t prefrontal, parietal, temporal, occipital		amus;	
	ical: corpus callosum; amygdala; medial (inc hipp putamen globus pallidus midbrain & cerebellum	ocampus), that		
caudate,	ical: corpus callosum; amygdala; medial (inc hipp putamen, globus pallidus, midbrain & cerebellum. or naming a cortical and 1 mark for naming sub-cortica	. ,	(1+1)	

the left and more activity in the right. Cingulate, Caudate, Putamen, Globus Pallidus, Midbrain and cerebellum – no significant differences. (2) [4]

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10	In t	he study	by Milgram on	obedie	nce:				
	(a)	Most like political p Any atter	ourpose, the dis	osycholo position narks.	ogical mechanis al cement which Any reasonable	binds men to	s individual act systems of auth 2 marks even if	nority."	
	(b)	Most like	ely: any reasona teaching in class	ible sug sroom; p	oolice, etc.	eaking laws e	e. eg traffic lights o 1 mark bland,		[4]
11	In t	he study	by Piliavin, Ro	din and	l Piliavin (subw	ay Samaritan	s):		
	(a)	Most like		ole perc ikely to			ed amongst all	those (2)	
	(b)	Briefly 'diffusio Most like	describe the on of responsibility: murder of Ki	context ility' . itty Gen	·	,	led to researd d not call the po	ch on	[4]
12	the Mos dec pres	study by st likely: ception – t ference. fidentiality	Tajfel on inter the way the boy y – none of the b	group c /s were boys we	discrimination. put into groups	; study of visi	nical issues rais ual judgements/a		

Mark Scheme

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Paper

Syllabus

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consent – not full, informed consent

1 mark identification of issue, 2 marks description/example of issue. (2+2) [4]

	Page 6	Mark Scheme	Syllabus	Paper	-
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3 F	From the stu	dy on intelligence testing by Gould:			
(i	Any exar 1. test ite 2. test ite 3. lighter	e example of discrimination in the tests. nple from the study. Most likely: ems preferable for those who had experience of the US ems preferring those who could read and/or write; skins being rated as more intelligent than darker skins or brief, 2 marks for detailed example.		(2)	
(1	Any exar 1. immig 2. first re	e example of social control that followed the testing nple from the study. Most likely: ration restriction act of 1924 allowing 2% entry; striction act of 1921 allowing 3% entry from any nation n refugees and others during 1930s barred from entry	-	(2)	
b 1 2 3	black childre . "times may 2. "30 years a 3. "The 'black	y Hraba and Grant give four explanations for the d en. Outline <i>two</i> of these explanations. y be changing" – negroes are becoming blacks proud c ago black children in Lincoln, unlike other cities, would x movement'campaigndirected at children" contact may engender black pride".	of their race.		
5 T	higpen and	Cleckley believed that Eve had multiple personali	ty disorder.		
(;	persona Most like	e piece of evidence that supports the view that lity disorder. ely: the 'ambiguous' letter received; loss of memory		•	
		ck-outs; appearance of new personalities. or partial description, 2 marks for more.		(2)	
(multiple	e piece of evidence that does not support the personality disorder. ely: deception by Eve – good actress; similarity of IC			
		r logical query.			

1 mark for partial description, 2 marks for more.

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.

(2) [4]

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Section B

Q	Description	Mark	
16	One of the ethical issues that causes concern when carrying psychological investigations is whether participants are physic emotionally harmed by the research.		
(a)	Describe the procedure of your chosen study.		
	Gardner and Gardner (project Washoe)		
	Rosenhan (sane in insane places)		
	Haney, Banks and Zimbardo (prison simulation)		
	Emphasis on study. Answers must be related to named studie One point from each study.	es.	
	Indicative content: most likely answers (any appropriate answer recredit):	eceives	
	Gardner: captured, taught sign language via successive approximations and imitation. Rewards given.		
	Rosenhan: Calls institution claims to hear voices. Admitted. Life on ward.		
	•	ward.	
	•		
	Rosenhan: Calls institution claims to hear voices. Admitted. Life on		
	Rosenhan: Calls institution claims to hear voices. Admitted. Life on Haney: sample selected, allocated as prisoner or guard. Arrested at taken to police station then mock prison. De-loused, stripped etc.		
	Rosenhan: Calls institution claims to hear voices. Admitted. Life on Haney: sample selected, allocated as prisoner or guard. Arrested at		
	Rosenhan: Calls institution claims to hear voices. Admitted. Life onHaney: sample selected, allocated as prisoner or guard. Arrested attaken to police station then mock prison. De-loused, stripped etc.For each point up to a maximum of FOUR points	home,	
	Rosenhan: Calls institution claims to hear voices. Admitted. Life on Haney: sample selected, allocated as prisoner or guard. Arrested at taken to police station then mock prison. De-loused, stripped etc. For each point up to a maximum of FOUR points No answer or incorrect answer. Anecdotal evidence, general statements, minimal detail, minimal	home, 0	
	Rosenhan: Calls institution claims to hear voices. Admitted. Life on Haney: sample selected, allocated as prisoner or guard. Arrested at taken to police station then mock prison. De-loused, stripped etc. For each point up to a maximum of FOUR points No answer or incorrect answer. Anecdotal evidence, general statements, minimal detail, minimal focus. Attempt to outline some of main aspects of procedure though with omission of detail or lack of clarity (comment with some comprehension). Main aspects of procedure identified and described in good detail.	home, 0 1-3	
	Rosenhan: Calls institution claims to hear voices. Admitted. Life on Haney: sample selected, allocated as prisoner or guard. Arrested at taken to police station then mock prison. De-loused, stripped etc. For each point up to a maximum of FOUR points No answer or incorrect answer. Anecdotal evidence, general statements, minimal detail, minimal focus. Attempt to outline some of main aspects of procedure though with omission of detail or lack of clarity (comment with some comprehension).	home, 0 1-3 4-6	

16b	Describe how participants may have been harmed in your cho study.	osen		
	 Gardner: Washoe captured from wild; kept in captivity; taught alien language; not released after study. NB candidates who believe Wash was released/returned to wild score no marks. Rosenhan: no consent from participants; damage to reputations. Pseudopatients are also 'participants' in the general sense and could been harmed by drugs or physical beatings or by depersonalisation (et though they were confederates of experimenter) Haney: concerns pathology of power – participants depersonalisation study stopped early. 	have even		
	No answer or incorrect answer.	0		
	Anecdotal description of harm, brief detail, minimal focus.	1-3		
	Appropriate aspects of harm identified, description shows some understanding. Some detail and expansion of instance(s).			
	Appropriate aspects of harm identified.	7-10		
	Description is clear, has good understanding, is focused and well expressed. Good detail each aspect explained fully.			
	Max mark	10		

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16c	Using your chosen study as an example, give arguments for a against causing harm to participants when carrying out resear	
	Indicative content: most likely answers (any appropriate answer red	
	credit):	
	for: it may be to simulate a realistic situation.	
	for: Ends justify means	
	against: Something may go seriously wrong	
	against: Discourages future participation in psychological research.	
	against: Lowers the status of psychology – a "crackpot" subject?	n
	No answer or incorrect answer.	0
	Anecdotal description, brief detail, minimal focus. Very limited range.	1-3
	Description may be inaccurate, incomplete or muddled.	
	Arguments for and against which are focused on the question, are	4-5
	psychologically informed but lack detail, elaboration or example.	
	Arguments for and against which are focused on the question and	6-7
	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	
	Range of arguments for and against (4 or more) which are focused	8-10
	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.	
	Max mark	10

16d	Suggest one other way of gathering data in your chosen study that would not cause harm 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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Q	Description	Mark	
17	A number of studies take a developmental approach which looks at		
	human behaviour and experience in different ages of people and		
	attempts to describe how thoughts, feelings and behaviour develop.		
(a)	Describe the findings of your chosen study.		
	Samuel and Bryant (conservation)		
	Hodges and Tizard (social relationships)		
	Freud (little Hans)		
	Emphasis on study. Answers must be related to named studies.		
	One point from each study. Samuel: one question v two question; number easier than mass then		
	volume. Conservation improves with age. Hodges: ex-institutional more adult oriented, do not have special friend, etc.		
	Freud: findings support theory: Hans in phallic stage and Oedipus complex. Evidence of this credited as findings e.g. giraffe episode etc.		
	For each point up to a maximum of FOUR points	•	
	No answer or incorrect answer.	0	
	Anecdotal evidence, general statements, minimal detail, minimal focus.	1-3	
	Attempt to outline some of main aspects of 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 selection of aspects of findings.	7-10	
	Max mark	10	

17b	Describe what your chosen study tells us about development.		
	Samuel: conservation (and all aspects) improves with age.		
	Hodges: effects of early experience cannot be reversed.		
	Freud: children progress through stages.		
	No answer or incorrect answer.		
	Anecdotal description of development, brief detail, minimal focus.	1-3	
	Appropriate aspects of development identified, description shows	4-6	
	some understanding. Some detail and expansion.		
	Appropriate aspects of development identified.	7-10	
	Description is clear, has good understanding, is focused and well		
	expressed. Good detail each aspect of development explained fully.		
	Max mark	10	

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17c	Using your chosen study as an example, what are the advantages and disadvantages of studying development?		
	Indicative content: Most likely answers: (any appropriate answer		
	receives credit):		
	Adv: changes in development over time can be recorded (whole life-s	pan).	
	Adv: can determine how best to educate children.		
	Adv: lots of detailed data can be collected.		
	Disadv : Children are children and not adults – we can't generalise fror		
	behaviour. We should not assume that what they do as children will be	e what	
	they do as an adult.		
	Disadv : Children cannot communicate their thoughts and feelings clear		
	They may become confused and may misinterpret what is required. E	g.	
	asking only one question Disadv : May be problems of interpretation. Experimenters may also		
	misinterpret what a child intends. E.g. Hans' father and/or Freud		
	Disadv : children cannot give informed consent. They may well be stud	haib	
	even though they do not wish to be. They will also not understand that		
	have the right to withdraw. E.g. Bandura	t they	
	Disadv : Studies on development take time – one way to study develop	oment	
	over time is to do a longitudinal study but this takes time or snapshot s		
	are done comparing one child with another and the children may be		
	No answer or incorrect answer.	0	
	Anecdotal description, brief detail, minimal focus. Very limited range.	1-3	
	Description may be inaccurate, incomplete or muddled.		
	Advantages and disadvantages which are focused on the question,	4-5	
	are psychologically informed but lack detail, elaboration or example.		
	Advantages and disadvantages which are focused on the question	6-7	
	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		
	Range of advantages and disadvantages (4 or more) which are	8-10	
	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.		
	Max mark	10	

17d	Suggest a different way of gathering data 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