UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary and Advanced Level

MARK SCHEME for the June 2005 question paper

9698 PSYCHOLOGY

Paper 1 (Core Studies 1), maximum raw mark 100 9698/01

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published Report on the Examination.

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 discussion or correspondence in connection with these mark schemes.

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Grade thresholds taken for Syllabus 9698 (Psychology) in the June 2005 examination.

	maximum	minimum	mark required	for grade:
	mark	Α	В	Е
	available			
Component 1	100	69	60	37

The thresholds (minimum marks) for Grades C and D are normally set by dividing the mark range between the B and the E thresholds into three. For example, if the difference between the B and the E threshold is 24 marks, the C threshold is set 8 marks below the B threshold and the D threshold is set another 8 marks down. If dividing the interval by three results in a fraction of a mark, then the threshold is normally rounded down.

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JUNE 2005

GCE AS/A LEVEL

MARK SCHEME

MAXIMUM MARK: 100

SYLLABUS/COMPONENT: 9698/01

PSYCHOLOGY

Core Studies 1

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Page 1	Mark Scheme	Syllabus
	GCE AS/A LEVEL – JUNE 2005	9698
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Page 1	Mark Scheme Sylla	bus	0
	GCE AS/A LEVEL – JUNE 2005 969	8	80
			S
Question	Description Leading and the second leading an	Mark	77
1 (2)	In the first experiment on eyewitness testimony by Loftus What was the independent variable? [2]	and Paime	er:
(a)	The IV was the leading word and had five conditions: smashe	4	_
	collided, hit, bumped, contacted. 1 mark partial (e.g. 'verb' on	lv	
	no e.g.), 2 marks full (with one verb e.g. smashed).	2	
(b)	What was the dependent variable? [2]		Į.
\-\\-\\-\\-\	The DV was the mean speed estimate in mph. Actual data no	ot	
	needed. 1 mark partial (e.g. mph or estimate), 2 marks full (e.g.		
	speed estimate).	2	[4]
2 (a)	Deregowski refers to different types of evidence on picture Briefly describe one piece of anecdotal evidence. [2]	e perception	on.
	Any study by Robert Laws; Mrs Fraser or 'other reports'.		
	1 mark partial, 2 marks full.	2	
(b)	Briefly describe one piece of empirical evidence. [2]		1
	Any study by Hudson: man/elephant/antelope; two-pronge		
	trident; construct a cube/split-style. 1 mark partial, 2 marks full	. 2	[4]
•			1 41
3	The study by Baron-Cohen, Leslie and Frith on autism groups of children.	n invoive	a three
(a)	Why were Down's syndrome children used in addition	n to the	autistic
	children? [2]	1-	1
	Most likely: to confirm that autism was not related intelligence. Downs had similar ages but lower IQ. Down		
	could do test, so T of M not related to intelligence. 1 ma		
	partial (e.g. 'as a control group', or 'to see if they have memo		
	of mind'). 2 marks full.	2	
(b)	Why were 'normal' children used in addition to the autistic		
	Most likely: to confirm that autism was not related to ago		
	Normal had similar IQ but were much younger. Normal cou		
	do test, so T of M not related to age/development. 1 ma		
	partial, 2 marks full. NB: If repeat of above answer, no marks.	2	[4]
4			
4 ()	From the study by Gardner and Gardner on Washoe:	4 \4/	
(a)	Outline one way in which it was decided whether or	not wasn	ioe nad
	learned a new sign. [2] 1 new sign reported by three different observers added	to	
	checklist.		
	2 at least 1 appropriate and spontaneous occurrence per da	<u>ay</u>	
	for 15 consecutive days.		
41.5	1 mark partial (if 1 only), 2 marks full.	2	
(b)	To what extent was Washoe successful at learning sign la		4]
	Answer is speculative, requiring candidate's opinion. 1 mark for		
	comment and 1 mark for supporting evidence such as Washo		[41
	had thirty signs by 22 months.	2	[4]
5	The study by Samuel and Bryant looked at the effect	of age of	uestion
,	format and type of material on conservation.	oı aye, q	นธอนเปม
(a)	Briefly describe the procedure for one type of material. [2]		
(α)	Materials are liquid, plasticine/playdoh/coins. Brief description	n	
	of procedure needed. 1 mark partial, 2 marks full.	2	
	or procedure freedom. I mark partial, 2 marks fall.		-1

		2.
Page 2	Mark Scheme	Syllabus
	GCE AS/A LEVEL – JUNE 2005	9698
-	•	90

Page 2	2 Mark Scheme Sylla	bus	3
	GCE AS/A LEVEL – JUNE 2005 96	98	Book
			Co
(b)	Give one conclusion about the effect of type of material	on consei	rvati
(- /	[2]		
	Most likely: children made most errors on the volume task ar	nd	
	least on the number task.	2	[4]
	From the study by Hadres and Timera an assist relations	shina autli	ina tura
	From the study by Hodges and Tizard on social relations differences between the ex-institutional children and the		<u></u>
	group. [4]		
	Any two from: ex-institutional were more adult orientated; ex-		
	institutional were less likely to get on with peers; were less		
	likely to have a special friend; were less likely to be selective		
	in choosing a friend. 1 mark partial, 2 marks full.	2 + 2	[4]
	In the article by Freud, little Hans is asked 'when the ho	rse fell do	wn did
	you think of your daddy?'	noo ron do	····· ara
(a)			
	Most likely answer: it is a leading question. Other appropriate		
	responses acceptable. 1 mark partial (e.g. 'leading		
(h)	question'), 2 marks full explanation/problem given. How did Freud interpret Hans' fear of horses? [2]	2	
(b)	Most likely: the horse was Hans' father and the father may not		
	approve of 'love interest' in mother (Oedipus complex); father		
	may castrate Hans – like Dr A – 1 mark partial, 2 marks full.	2	[4]
	In the study by Schachter and Singer on emotion, particip	ants were	divided
	into four different groups. What were the four groups? [4]		1
	Epi inf, epi mis, epi ign, placebo (control). 1 mark for correct	1+1+1+1	F 43
	Lioeninication of each		1 141
	identification of each.		[4]
	Dement and Kleitman studied rapid eye movement (REM		
	Dement and Kleitman studied rapid eye movement (REN rapid eye movement (NREM) sleep.		
(a)	Dement and Kleitman studied rapid eye movement (REN rapid eye movement (NREM) sleep. How were REM and NREM sleep measured? [2]	l) sleep ar	
(a)	Dement and Kleitman studied rapid eye movement (REN rapid eye movement (NREM) sleep. How were REM and NREM sleep measured? [2] Measured by placing electrodes of EEG near eyes and	1) sleep ar	
(a)	Dement and Kleitman studied rapid eye movement (REN rapid eye movement (NREM) sleep. How were REM and NREM sleep measured? [2] Measured by placing electrodes of EEG near eyes and recording electrical activity of the brain. 2 marks for correct	1) sleep an	nd non-
	Dement and Kleitman studied rapid eye movement (REN rapid eye movement (NREM) sleep. How were REM and NREM sleep measured? [2] Measured by placing electrodes of EEG near eyes and recording electrical activity of the brain. 2 marks for correct answer.	l) sleep ar	nd non-
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(b)	Dement and Kleitman studied rapid eye movement (REN rapid eye movement (NREM) sleep. How were REM and NREM sleep measured? [2] Measured by placing electrodes of EEG near eyes and recording electrical activity of the brain. 2 marks for correct answer. Give two differences between REM sleep and NREM sleep. Any two from: REM more likely to dream; REM body relatively still; REM eyes move behind lids; REM low voltage, fast EEG. 1 mark partial, 2 marks full. The study by Sperry looks at how material presented to visual fields is sent to the visual cortex of the brain. marking the left and right hemispheres and the rou pathways. [4] Drawing with left and right hemispheres (1 + 1 mark), correct	the left an Sketch ate of the	[4]
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(b)	Dement and Kleitman studied rapid eye movement (REM rapid eye movement (NREM) sleep. How were REM and NREM sleep measured? [2] Measured by placing electrodes of EEG near eyes and recording electrical activity of the brain. 2 marks for correct answer. Give two differences between REM sleep and NREM sleep. Any two from: REM more likely to dream; REM body relatively still; REM eyes move behind lids; REM low voltage, fast EEG. 1 mark partial, 2 marks full. The study by Sperry looks at how material presented to visual fields is sent to the visual cortex of the brain. marking the left and right hemispheres and the rou pathways. [4] Drawing with left and right hemispheres (1 + 1 mark), correct route of pathways for 1 + 1 marks. Must be labelled to be credited. In the study by Raine, Buchsbaum and LaCasse participants were pleading not guilty for reasons of insanit	the left an Sketch ate of the 1+1+1+1	[4] scans,

Page 3	Mark Scheme	Syllabus	.0	
	GCE AS/A LEVEL – JUNE 2005	9698	100	

	(b)	What task were all participants asked to do immediately	pefore the	SC ON
		[2]		
		Participants had practice trials on a continuous performance		
		test for 10 minutes. Then given actual test and 30 seconds		
		later injected with 'dye'. 32 minutes later transferred to PET		
		scanner. 1 aspect of procedure for 1 mark, 2 or more = 2		
		marks.	2	[4]
12		In the study by Haney, Banks and Zimbardo the guards well uniform.	e given a	
	(a)	Briefly describe the uniform. [2]		
	` '	Most likely: khaki shirt and trousers, whistle, wooden baton,		
		reflecting sunglasses. Any two for maximum mark.	2	
	(b)	Describe what effect the uniform had on the behaviour of the	ne guards.	[2]
		Guards adopted role fully – went beyond their role – even		
		asked for extra duty. 1 mark partial, 2 marks full.	2	[4]
13		From the Piliavin, Rodin and Piliavin study of subway Sama	aritane:	
10	(a)	Give two ways in which the 'drunk' victim behaved. [2]	iiitaiis.	
	(α)	Most likely: drunk smelled of liquor and carried a brown paper		
		bag. Stood next to pole in critical area. When passing first		
		station, staggered forward and collapsed. 1 mark partial, 2		
		marks full.	2	
	(b)	Describe one way in which the results for the 'drunk' con		r from
	(6)	the results of the 'ill' condition. [2]	aition airie	, 11O111
		Drunk helped spontaneously on 19 of 38 trials, ill helped on		
		62 out of 65 trials. Therefore less helping of drunk. Also		
		drunk was more likely to be helped by a member of the same		
		race ('black' or 'white'). 1 mark partial, two marks full.	2	[4]
4.4		All studies in neurobale our maios athiral issues. Outling two	-4lai-ali-a	!
14		All studies in psychology raise ethical issues. Outline <u>two</u> the study by Rosenhan (sane in insane places). [4]	etnicai iss	sues in
		Most likely: no consent from doctors or nurses; deception of		
		doctors and nurses. Confidentiality maintained. 1 mark		
		partial, 2 marks full.	2+2	[4]
15		In the study by Thigpen and Cleckley, Eve White complain	ed of head	aches.
		Give two pieces of evidence that led them to conclud	le that sh	e was
		suffering from multiple personality disorder. [4]		
		Most likely:		
		1 the letter received from Eve;		
		various behaviours with no memory (e.g. shopping trip);		
		3 sudden changes in personality – eye movements etc.		
		1 mark partial, 2 marks full.	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.

Page 4	Mark Scheme	Syllabus	.0	
	GCE AS/A LEVEL – JUNE 2005	9698	10	

Page 4	Mark Scheme Syllabus	
	GCE AS/A LEVEL – JUNE 2005 9698	Do I
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	Mark Scheme Syllabus GCE AS/A LEVEL – JUNE 2005 9698 Psychological research is often carried out in laboratories. Some would argue that this is the best place to conduct research but would suggest it has a number of limitations. Bandura, Ross and Ross (aggression) Milgram (obedience) Taifel (intergroup categorisation)	17
i	Psychological research is often carried out in laboratories. Some	peo
	would argue that this is the best place to conduct research but	otner
	would suggest it has a number of limitations.	
	Bandura, Ross and Ross (aggression) Milgram (obedience)	
	Tajfel (intergroup categorisation)	
(a)	Briefly describe the procedure of your chosen study.	
(α)	Bandura: children matched; either aggressive or non-aggressive group.	Both
	play with toys then observe a model either aggressive or not.	Dour
	Milgram : teacher and learner ask questions and if incorrect give 'electric sl	hock'.
	Tajfel : two experiments. Put into groups then allocate points on matrix.	- - •
	No answer or incorrect answer	0
	Anecdotal evidence, general statements, minimal detail, minimal focus	1-3
	Attempt to outline 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.	
	Description is clear, focused and well expressed.	7-10
	Max mark	[10]
(b)	Describe how being in a laboratory helped the experimenter to o	control
	variables in your chosen study.	
	Bandura: 1; controlled environment; same items for all children; observe	
	model for fixed time period; standardised observation (one-way mirror).	
	Milgram: control lots; equipment (generator) standard; two rooms with	
	teacher and learner; scientific environment.	
	Tajfel : control dots on screen; all boys same procedure; matrices standard. No external influences on boys.	
	No answer or incorrect answer.	0
	Anecdotal description of controls, brief detail, minimal focus.	1-3
	Appropriate controls identified, description shows some understanding.	1-0
	Some detail and expansion of generalisations.	4-6
	Appropriate controls identified. Description is clear, has good	<u> </u>
	understanding, is focused and well expressed. Good detail, each control	
	explained fully.	7-10
	Max mark	[10]
(c)	What are the advantages and disadvantages of using a laborat	ory to
	conduct your chosen study?	
	Advantage - control means IV more likely to cause DV - reduces	
	confounding.	
	Advantage – allows control over extraneous variables – distractions etc.	
	Gives credibility to study.	
	Advantage – patients in lab volunteer – more likely to behave	
	appropriately.	
	Disadvantage – in lab so demand characteristics more likely. Disadvantage – study may be low in ecological validity.	
	Disadvantage – controlling too many variables is reductionist and not	
	realistic.	
	No answer or incorrect answer.	0
	Anecdotal description, brief detail, minimal focus. Very limited range.	
	Description may be inaccurate, incomplete or muddled.	1-3
	One or two advantages or disadvantages but basic, lacking in detail or	
	explanation. Some understanding. Advantages or disadvantages which	
	The same of the sa	
	are focused on question.	
	are focused on question. For 4 marks as for 6-7 mark band.	

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Page 5	Mark Scheme	Syllabus
	GCE AS/A LEVEL – JUNE 2005	9698

	305 ASIA LEVEL - 30NE 2003	00
	detail and expansion of key features	8-10 [10]
	detail and expansion of key features.	1
	Balance of advantages and disadvantages which are focused on question. Description is detailed with good understanding and clear	
	expression. The arguments are well considered and reflect	•
	understanding which extends beyond the specific study.	Q_10
	Max mark	[10]
(d)	Suggest one way in which data could have been gathered outside a	[10]
(u)	laboratory for your chosen study and say how you think this might	
	affect the results.	•
	No answer or incorrect answer.	0
	Anecdotal suggestion, brief detail, minimal reference to question.	
	Description may be inaccurate, incomplete or muddled. No or minimal	4.0
	reference to implication of change or effect on results.	1-3
	An appropriate suggestion is made. Description shows some	
	understanding. Some detail and expansion. Implications of change may	
	be basic. Effect on actual result is mentioned but not developed.	4-6
	*Suggestion only max 5 marks.	4-0
	An appropriate suggestion is made. Description is detailed with good	
	understanding and clear expression. Implications of change are considered. Effect on actual result is considered.	7 10
	Max mark	7-10 [10]
	wax mark	נוטן
,	A number of studies in psychology look at individual difference	e and
	cultural diversity. These are the qualities that make one individual di	
	from another and one society different from another.	
	Deregowski (perception)	
	Gould (IQ testing)	
	Hraba and Grant (doll choice)	
(a)	Describe the procedure of your chosen study.	
(ω)	Deregowski: procedure of Hudson's work most likely such as	
	man/elephant/antelope or cube construction or two-pronged trident.	
	Anecdotal procedure is also acceptable.	
	·	
	Gould: tested for alpha of beta. Test details/examples of questions. If	
	Gould : tested for alpha of beta. Test details/examples of questions. If fail go for interview	
	fail go for interview.	
	fail go for interview. Hraba : ask children series of questions about doll choice.	0
	fail go for interview. Hraba : ask children series of questions about doll choice. No answer or incorrect answer.	0
	fail go for interview. Hraba : ask children series of questions about doll choice. No answer or incorrect answer. Anecdotal evidence, general statements, minimal detail, minimal focus.	0 1-3
	fail go for interview. Hraba : ask children series of questions about doll choice. No answer or incorrect answer. Anecdotal evidence, general statements, minimal detail, minimal focus. Attempt to outline procedure though with omission of detail or lack of	1-3
	fail go for interview. Hraba: ask children series of questions about doll choice. No answer or incorrect answer. Anecdotal evidence, general statements, minimal detail, minimal focus. Attempt to outline procedure though with omission of detail or lack of clarity (comment with some comprehension).	
	fail go for interview. Hraba : ask children series of questions about doll choice. No answer or incorrect answer. Anecdotal evidence, general statements, minimal detail, minimal focus. Attempt to outline procedure though with omission of detail or lack of clarity (comment with some comprehension). Main aspects of procedure identified and described in good detail.	1-3 4-6
	fail go for interview. Hraba: ask children series of questions about doll choice. No answer or incorrect answer. Anecdotal evidence, general statements, minimal detail, minimal focus. Attempt to outline procedure though with omission of detail or lack of clarity (comment with some comprehension).	1-3

Page 6	Mark Scheme	Syllabus	
	GCE AS/A LEVEL – JUNE 2005	9698	

je 6	Mark Scheme GCE AS/A LEVEL – JUNE 2005 Outline what your chosen study tells us about individual differences. Deregowski: that people in different parts of the world perceive pictures in different ways. That perception is culturally based and learned rather than inherited. That some people are ethnocentric and assume some cultures are inferior because they are different. That pictures cannot be used as a universal means of communication.			
	GCE AS/A LEVEL – JUNE 2005 9698	02		
		CS.		
)	Outline what your chosen study tells us about individual differences.	1		
	Deregowski : that people in different parts of the world perceive pictures			
	in different ways. That perception is culturally based and learned rather			
	than inherited. That some people are ethnocentric and assume some			
	cultures are inferior because they are different. That pictures cannot be			
	Gould: that people (Eugenicists) believe in superiority of certain types,			
	particularly skin colour. That individual differences cannot easily be measured and certainly not used as a way of comparing cultures.			
	Hraba: that children prefer their own race — in 1969 children were			
	ethnocentric (but that this is good! Black children no longer saw white as			
	superior). That individual differences are culturally determined – society			
	changes so beliefs change.			
	No answer or incorrect answer.	0		
	Anecdotal description of individual differences, brief detail, minimal focus.	1-3		
	Appropriate individual differences identified, description shows some	4-6		
	understanding. Some detail and expansion of individual differences. Appropriate aspect identified. Description is clear, has good	4-0		
	understanding, is focused and well expressed. Good detail with each			
	individual difference explained fully.	7-10		
	Max mark			
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Page 7	Mark Scheme	Syllabus
	GCE AS/A LEVEL – JUNE 2005	9698

Page 7	Mark Scheme Syllabus	
	GCE AS/A LEVEL – JUNE 2005 9698	00-
		S.
(d)	Suggest an alternative way of gathering data for your chosen study a	DaCambridge
(4)	what effect, if any, this would have on the results.	700
	No answer or incorrect answer.	0
	Anecdotal description, brief detail, minimal reference to question.	
	Description may be inaccurate, incomplete or muddled. No or minimal	•
	reference to implication of change or effect on results.	1-3
	An appropriate suggestion is made. Description shows some	
	understanding. Some detail and expansion. Implications of change may	
	be basic. Effect on actual result is mentioned but not developed.	
	*Suggestion only max 5 marks.	4-6
	An appropriate suggestion is made. Description is detailed with good	
	understanding and clear expression. Implications of change are	
	considered. Effect on actual result is considered.	7-10
	concluding. Encot on actual recall to conclude out.	