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.

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UNIVERSITY of CAMBRIDGE International Examinations

| | Page 2 | | | | Paper | , |
|----|--------|-----------------------|---|-------------------|-------|-----|
| | | - | e 2 Mark Scheme Syllabus GCE A/AS LEVEL – May/June 2007 9698 | | | |
| Se | ction | A | | | | |
| 1 | Fro | m the stud | dy by Loftus and Palmer on eyewitness testimony: | | | |
| | (a) | Briefly de | escribe the results of the second experiment. | | | |
| | | People ir smashed | ly: YES: smashed 16, hit 7, control 6. NO: smashed 3 n all three groups saw broken glass that did not exist. I saw most broken glass. Numbers not needed for 2 m | Those receiving | | |
| | | т так р | artial, 2 marks full. | | [2] | |
| | (b) | Suggest | an explanation for these results. | | | |
| | | 2. the qu | ly: 1. 'smashed' is a leading verb and participants resp estion 'did you see broken glass' also leading hence yo rol condition. | | | |
| | | 1 mark p | artial, 2 marks full. | | [2] | [4] |
| 2 | Fro | m the revi | ew of studies on picture perception by Deregowski: | | | |
| | (a) | Describe | the findings from one study. | | | |
| | | | ly: Any from: Laws, Fraser or 'Other'. | '- | | |
| | | two-pron | udson's studies: man/antelope/elephant; construct 'cul ged trident; split-style elephants. artial, 2 marks full. | be; | [2] | |
| | (b) | What car | n be concluded about picture perception from this stud | y? | | |
| | | | ly: picture perception is learned; pictures cannot be us | ed as lingua | | |
| | | franca. 1 mark p | artial, 2 marks full. | | [2] | [4] |
| 3 | | he study b stions. | by Baron-Cohen, Leslie and Frith on autism the childre | n were asked fou | r | |
| | (a) | Identify t | wo questions used as controls. | | | |
| | | The nam understo | ef question is the critical question and not a control. ing, reality and memory questions were controls to ens od what was going on. or each correct identification. | sure the children | [2] | |
| | (b) | Why wer | e the children asked control questions? | | | |
| | | To elimir | ly: to determine whether the children understood the p nate extraneous variables/confounding. artial, 2 marks full. | rocedure. | [2] | [4] |

| | Page 3 | | Mark Scheme | Syllabus | Paper | , |
|---|--------|----------------------------------|--|--|-------|-----|
| | | | GCE A/AS LEVEL – May/June 2007 | 9698 | 1 | |
| 4 | The | study by | Gardner and Gardner on Washoe was conducted in a | laboratory. | | |
| | (a) | Suggest | one reason why this was an advantage. | | | |
| | | | ly answers: same as for any lab experiment. Control or artial e.g. 'control over variables', 2 marks basic with e | | [2] | |
| | (b) | Suggest | one problem with studying animals in a laboratory. | | | |
| | | chimpan | ly answer: behaviour is not natural/low in ecological va zee not in wild. Also unethical – no right to withdraw o artial, 2 marks full. | - | [2] | [4] |
| 5 | Fro | m the stu | dy by Samuel and Bryant on conservation: | | | |
| | (a) | | ne main difference between the children's responses to i', compared to the 'two question condition' (Piaget's or | • | | |
| | | materials No mark | ly answers: there were fewer errors in the one questios than the two question condition. s for differences in procedure (Q states responses). artial, 2 marks full. | n condition for all | [2] | |
| | (b) | Suggest | one reason for this difference. | | | |
| | | Most like question | ly answer: children are less confused when they are a | sked only one | | |
| | | | artial, 2 marks expansion. | | [2] | [4] |
| 6 | | | Bandura, Ross and Ross on aggression found a numl our of participants. | per of differences | | |
| | (a) | Outline c participa | ne difference in behaviour between the male and the task. | female | | |
| | | verbally aggressi males wi | ly answers: 1. females less physically aggressive; 2. f aggressive, particularly with female model. 3. females on than males with female model. 4. females punch be nen with male model. 5. females less aggressive gun for any one correct statement. 1 mark 'males more ag | more mallet obo more than play than males. | [2] | |
| | (b) | Suggest | one explanation for this difference in behaviour. | | | |
| | | males ar | is speculative and any appropriate answer is accepta d females are brought up differently; males more pred on (Bandura quote). | | | |
| | | •• | artial, 2 marks expansion. | | [2] | [4] |

| | Page 4 | | Mark Scheme Syllabus | Pape | r |
|---|--------|--------------------|--|-------|------|
| | | | GCE A/AS LEVEL – May/June 2007 9698 | 1 | |
| 7 | Fro | m the stu | dy by Hodges and Tizard (social relationships): | | |
| | (2) | What did | t teachers say about the ex-institutional children? | | |
| | (a) | vinat ulu | reachers say about the ex-institutional children? | | |
| | | | sponses are ambiguous in that it isn't clear whether they were said by | I | |
| | | credit are | or the adolescent or by the parent. Some aspects, those which we will e below. | | |
| | | | ark for each response or 2 marks for 1 response in detail. | | |
| | | Rated as popular); | s 'less popular' than average with peers (though some rated as more | | |
| | | Less ofte | en liked by other children (poor relationships); | | |
| | | | t until near the end when choosing teams or groups; ntly more quarrelsome; | | |
| | | - | ely to engage in bullying; | | |
| | | | nore than most to get attention from teachers and a stranger entering the | | |
| | | | t 16 still trying to get a lot of attention from adults, often more aggressive ecial friend (15-20% teachers did not answer this). Not anything on | е. | |
| | | • | lationships. | [2] | |
| | | | | | |
| | (b) | Suggest | one problem with gathering information from teachers in this study. | | |
| | | Teachers | s may not know what the children are really like out of school; may give | | |
| | | biased re | esponses. Other suggestions acceptable. | | |
| | | 1 mark p | partial, 2 marks full. | [2] | [4] |
| • | - | | | | |
| 8 | | | that the case study of little Hans provided support for the Oedipus utline two pieces of evidence from the study that support Freud's theory | | |
| | | | us complex. | | |
| | | Most like | ely: Any evidence related to Oedipus complex: suggestions to mother, | | |
| | | | pisode, father grandfather story. 1 mark partial, 2 marks full, twice. | [2+2] | [4] |
| | | | | | |
| 9 | | • • | / Dement and Kleitman looked at the relationship between eye | | |
| | mo | vements a | and dream content. | | |
| | (a) | Briefly de | escribe the dream content for one participant. | | |
| | | P1: stan | ding at bottom of cliff operating hoist and looking at climbers; | | |
| | | P2: climb | bing ladders and looking up and down; | | |
| | | | wing basketballs at a net; people throwing tomatoes at each other; | | |
| | | P5: drivi | ng a car then speeding car from left. | | |
| | | Any one | correct response = 2 marks. | [2] | |
| | | | | | |
| | (b) | | I Dement and Kleitman conclude about the relationship between eye ents and dream content? | | |
| | | | | | |
| | | Most like | ely: nain patterns: mainly vertical; mainly horizontal; vertical and horizontal; | | |
| | | | o movement. | | |
| | | | n content does correspond to eye movements during sleep. | 101 | F 4- |
| | | | prief e.g. there is a relationship. 2 marks elaboration such as example. | [2] | [4 |

1 mark brief e.g. there is a relationship. 2 marks elaboration such as example. [2] [4]

| Page 5 | Mark Scheme | Syllabus | Paper |
|--------|--------------------------------|----------|-------|
| | GCE A/AS LEVEL – May/June 2007 | 9698 | 1 |

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

Diagram of apparatus



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]

[2]

[2]

[4]

(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.

- **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').

(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] |

| Page 6 | Mark Scheme | Syllabus | Paper |
|--------|--------------------------------|----------|-------|
| | GCE A/AS LEVEL – May/June 2007 | 9698 | 1 |

- 12 Piliavin, Rodin and Piliavin made a number of conclusions about subway Samaritans.
 - (a) Describe **one** conclusion from the study.

List of 5 conclusions (direct quotes)

An individual who appears to be ill is more likely to receive help than one who appears to be drunk, even when the immediate help needed is of the same kind.
 Given mixed groups of men and women, and a male victim, men are more likely to help than are women.

3. Given mixed racial groups, there is some tendency for same-race helping to be more frequent, especially when the victim appears drunk rather than ill.

4. No diffusion of responsibility was found, i.e. help is not less frequent or slower in coming from larger as compared to smaller groups of bystanders; if anything the effect is in the opposite direction.

5. The longer the emergency continues without help being offered (i) the less impact a model has on the helping behaviour of observers, (ii) the more likely it is that individuals will leave the immediate area in order to avoid the situation and (iii) the more likely it is that observers will discuss the incident and implications for their behaviour.

1 mark partial, 2 marks for a correct conclusion (as above).

(b) Describe the evidence for this conclusion.

Evidence from study to match with one of the five conclusions above.[2]1 mark partial, 2 marks elaboration.[2]

[2]

- **13** According to Tajfel (intergroup discrimination):
 - (a) What is the cause of intergroup discrimination?

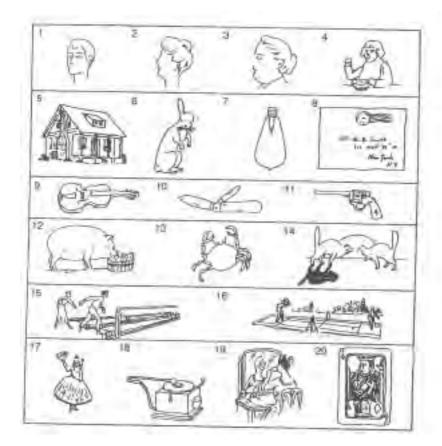
Any two (or more) groups that are different from each other in some way. Typically in-group and out-group. 1 mark partial (e.g. 'categorisation'), 2 marks elaboration (e.g. of categorisation). [2]

(b) Suggest one way in which intergroup discrimination may 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 | Paper |
|--------|--------------------------------|----------|-------|
| | GCE A/AS LEVEL – May/June 2007 | 9698 | 1 |

14 In the study by Gould, army recruits were given the beta test which involved participants drawing parts missing from pictures. Draw **two** examples of these pictures, identifying which part is missing from each of your drawings.



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. [2+2] [4]

| Page 8 | Mark Scheme | Syllabus | Paper |
|--------|--------------------------------|----------|-------|
| | GCE A/AS LEVEL – May/June 2007 | 9698 | 1 |

Section B

- **16** One common way of collecting data in psychology is to ask participants questions and then to 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] |

| Page 9 | Mark Scheme | Syllabus | Paper |
|--------|--------------------------------|----------|-------|
| | GCE A/AS LEVEL – May/June 2007 | 9698 | 1 |

(c) Using your chosen study as an example, what are the strengths and weaknesses of using self report measures?

Indicative content: Most likely answers (any appropriate answer receives credit):
Strength: participants given opportunity to express their feeling and explain their behaviour.
Strength: quality and richness of data gained. Not limited to quantitative.
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] |

| Page 10 | Mark Scheme | Syllabus | Paper |
|---------|--------------------------------|----------|-------|
| | GCE A/AS LEVEL – May/June 2007 | 9698 | 1 |

- **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 been 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] |

| Page 11 | Mark Scheme | Syllabus | Paper |
|---------|--------------------------------|----------|-------|
| | GCE A/AS LEVEL – May/June 2007 | 9698 | 1 |

(c) Using your chosen study as an example, what are the advantages and disadvantages of 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] |