

General Certificate of Education

Psychology 6181

Specification A

Unit 4 (PYA4)
Social Psychology, Physiological
Psychology, Cognitive Psychology,
Developmental Psychology and
Comparative Psychology

Mark Scheme

2008 examination - January series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

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QUALITY OF WRITTEN COMMUNICATION (QoWC)

Band 3	The work is characterised by some or all of the following:	4-3 marks
Band 2	The work is characterised by:	2-1 marks
Band 1	The work is characterised by:	0 marks

PYA4 ASSESSMENT OBJECTIVE 1

	Content	Detail and accuracy	Organisation & structure	Breadth and depth
12-11	Substantial	Accurate and well- detailed	Coherent	Substantial evidence of both and balance achieved
10-9	Slightly limited	Accurate & reasonably detailed	Coherent	Evidence of both but imbalanced
8-7	Limited	Generally accurate & reasonably detailed	Reasonably constructed	Increasing evidence of breadth and/or depth
6-5	Basic	Generally accurate, lacks detail	Reasonably constructed	Some evidence of breadth and/or depth
4-3	Rudimentary	Sometimes flawed	Sometimes focused	
2-0	Just discernible	Weak/muddled/ inaccurate	Wholly/ mainly irrelevant	

PYA4 ASSESSMENT OBJECTIVE 2

	Evaluation is	Material is used	Selection and elaboration
12-11	Thorough	Highly effective	Appropriate selection and coherent elaboration
10-9	Slightly limited	Effective	Appropriate selection and elaboration
8-7	Limited	Reasonably effective	Reasonable elaboration
6-5	Basic	Restricted	Some evidence of elaboration
4-3	Superficial and rudimentary	Not effective	No evidence of elaboration
2-0	Muddled and incomplete		Wholly or mainly irrelevant

General Note

In general, and unless otherwise indicated by the specific question and its marking scheme, description of research studies may be credited as AO1 or AO2. The critical element for AO2 credit is whether the research study is *explicitly* introduced as part of evaluation/commentary and findings/conclusions similarly linked as part of sustained evaluation/commentary ('topped and tailed'). If this is the case then the *whole* presentation of a research study should be credited as AO2. Otherwise the study may earn AO1 marks.

SECTION A: SOCIAL PSYCHOLOGY

1 Total for this question: 24 marks

Outline and evaluate **one or more** theories of the origins of prejudice.

(24 marks)

AO1

AO1 requires the candidate to outline one or more theories of the origins of prejudice. These could include theories based on personality, such as Adorno's Authoritarian personality, or more socially-based approaches such as realistic conflict theory (eg Sherif's Robber cave studies) or social identity theory. Candidates who choose to cover more than one theory will clearly show a breadth/depth trade-off.

This is an area where candidates are likely to use studies as *illustrations* of theories, especially, for instance, in relation to realistic conflict theory. Unless studies are explicitly used as AO2 they should be considered for AO1 credit if genuinely adding to the outline of theories.

Material on the maintenance and reduction of prejudice is unlikely to be relevant. However studies in these areas *could* throw light on the origins of prejudice, and if used explicitly in this way can earn credit.

AO₂

Evaluation of theories can be accomplished in various ways. Research evidence is a key area, especially if used as part of sustained and explicit evaluation. Other possibilities include the relevance of theories to social and cultural trends, and the use of alternative models to assess a target theory. If alternative models are introduced but not used as effective evaluation ie as part of sustained and focused commentary) they may still earn AO1 marks as additional theories of the origins of prejudice. However explicit comparison of alternative theories can be credited as AO2.

AO1: Outline of one or more theories of the origins of prejudice.

Band	Mark Allocation	Marks
Band 3	Outline of one or more theories of the origins of prejudice is	12-11
Top	substantial. It is accurate and well-detailed. The organisation and	
	structure of the answer are coherent , with substantial evidence of	
	breadth and depth.	
Band 3	Outline of one or more theories of the origins of prejudice is slightly	10-9
Bottom	limited. It is accurate and reasonably detailed. The organisation	
	and structure of the answer are coherent , with evidence of breadth	
	and depth.	
Band 2	Outline of one or more theories of the origins of prejudice is limited.	8-7
Top	It is generally accurate and reasonably detailed. The	
	organisation and structure of the answer are reasonably	
	constructed, with increasing evidence of breadth and/or depth.	
Band 2	Outline of one or more theories of the origins of prejudice is basic .	6-5
Bottom	It is generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable , with some evidence of	
	breadth and/or depth.	
Band 1	Outline of one or more theories of the origins of prejudice is	4-3
Top	rudimentary and sometimes flawed. There is some focus on the	
	question. The organisation and structure of the answer are	
	reasonable.	
Band 1	Outline of one or more theories of the origins of prejudice is just	2-0
Bottom	discernible. It is weak and shows muddled understanding. The	
	answer may be wholly irrelevant to the question's requirement.	

AO2: Evaluation of one or more theories of the origins of prejudice.

Band	Mark Allocation	Marks
Band 3	Evaluation of one or more theories of the origins of prejudice is	12-11
Top	thorough. The material is used in a highly effective manner and	
	shows evidence of appropriate selection and coherent	
	elaboration.	
Band 3	Evaluation of one or more theories of the origins of prejudice is	10-9
Bottom	slightly limited. The material is used in an effective manner and	
	shows evidence of appropriate selection and elaboration.	
Band 2	Evaluation of one or more theories of the origins of prejudice is	8-7
Тор	limited. The material is used in a reasonably effective manner	
	and shows reasonable elaboration.	
Band 2	Evaluation of one or more theories of the origins of prejudice is	6-5
Bottom	basic. The material is used in a restricted manner and shows	
	some evidence of elaboration.	
Band 1	Evaluation of one or more theories of the origins of prejudice is	4-3
Тор	superficial and rudimentary. The material is not used effectively	
-	and shows no evidence of elaboration.	
Band 1	Evaluation of one or more theories of the origins of prejudice is	2-0
Bottom	muddled and mainly irrelevant. The material may be wholly	
	irrelevant.	

2

Discuss research into 'understudied relationships', such as gay and lesbian relationships, and mediated (eg Internet and text) relationships. (24 marks)

AO1

AO1 material should consist of descriptions of research into understudied relationships. Note that the term 'research' includes both studies and theories, and this is particularly important in areas such as mediated relationships (eg relationships based on the internet, computer-mediated communication [CMC], or on mobile phones and text messaging), where research studies, though increasing, are relatively unavailable. The reliance on theoretical approaches and speculations does lead to the importance of distinguishing anecdote from psychologically-informed material, and examiners must be sensitive to this issue. Gay and lesbian relationships are likely to be a popular choice, and in these areas research is more accessible and better candidates should be expected to describe any of the many studies on the nature of such relationships.

Although answers are likely to focus on the examples in the question, other understudied relationships, such as non-Western relationships or relationships in old age, are not excluded. There is no plurality requirement in this question. Candidates may achieve the higher bands by providing *depth* or *breadth*.

AO2

Sources of AO2 material may include use of research to support theoretical propositions, or general commentary on the impact of eg social conventions, on the course and outcome of understudied relationships, especially gay and lesbian. Candidates discussing CMC and text-based relationships could include detailed commentary on the absence of non-verbal and especially paralinguistic cues, and consequent effects on the nature and duration of such relationships. A particularly effective approach would be to compare mediated relationships with face-to-face ('f2f') relationships.

Given the variety of studies in this area it would also be appropriate for candidates to consider different methodologies and methodological problems as part of their AO2 material.

AO1: Description of research into understudied relationships.

Band	Mark Allocation	Marks
Band 3	Description of research into understudied relationships is	12-11
Top	substantial. It is accurate and well-detailed. The organisation and	
	structure of the answer are coherent , with substantial evidence of	
	breadth and depth.	
Band 3	Description of research into understudied relationships is slightly	10-9
Bottom	limited. It is accurate and reasonably detailed. The organisation	
	and structure of the answer are coherent , with evidence of breadth	
	and depth.	
Band 2	Description of research into understudied relationships is limited . It	8-7
Top	is generally accurate and reasonably detailed. The organisation	
	and structure of the answer are reasonably constructed , with	
	increasing evidence of breadth and/or depth.	
Band 2	Description of research into understudied relationships is basic . It is	6-5
Bottom	generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable , with some evidence of	
	breadth and/or depth.	
Band 1	Description of research into understudied relationships is	4-3
Top	rudimentary and sometimes flawed. There is some focus on the	
	question. The organisation and structure of the answer are	
	reasonable.	
Band 1	Description of research into understudied relationships is just	2-0
Bottom	discernible. It is weak and shows muddled understanding. The	
	answer may be wholly irrelevant to the question's requirement.	

AO2: Evaluation of research into understudied relationships.

Band	Mark Allocation	Marks
Band 3	Evaluation of research into understudied relationships is thorough .	12-11
Тор	The material is used in a highly effective manner and shows	
	evidence of appropriate selection and coherent elaboration.	
Band 3	Evaluation of research into understudied relationships is slightly	10-9
Bottom	limited. The material is used in an effective manner and shows	
	evidence of appropriate selection and elaboration.	
Band 2	Evaluation of research into understudied relationships is limited .	8-7
Top	The material is used in a reasonably effective manner and shows	
	reasonable elaboration.	
Band 2	Evaluation of research into understudied relationships is basic .	6-5
Bottom	The material is used in a restricted manner and shows some	
	evidence of elaboration.	
Band 1	Evaluation of research into understudied relationships is	4-3
Top	superficial and rudimentary. The material is not used effectively	
_	and shows no evidence of elaboration.	
Band 1	Evaluation of research into understudied relationships is muddled	2-0
Bottom	and mainly irrelevant. The material may be wholly irrelevant.	

3

- (a) Outline **two** social psychological theories of aggression (eg social learning theory, deindividuation). (12 marks)
- (b) Evaluate **one** of the social psychological theories of aggression that you have outlined in part (a). (12 marks)

AO1: (a)

Candidates are likely to outline the theories given as examples in the question, taken from the Specification. However alternatives, such as relative deprivation theory, are not excluded. There are a number of approaches that are more psychological than social psychological, such as frustration-aggression and psychoanalytic models. It is hard to draw a clear demarcation between obviously social theories and these approaches that are more individual but set in a social context. Therefore such approaches would be acceptable as relevant to the question. Theories emphasizing the evolutionary of biological nature of aggression would not be acceptable as AO1 material. General outlines of theories without specific reference to aggression can receive a maximum mark of 8 for AO1. To move into Band 3 answers need to be shaped towards aggression.

Studies (in particular, Bandura's Bobo dolls) that do not earn marks as part of sustained and effective evaluation (AO2) may earn AO1 marks if clearly adding to the outline of theories. To move out of Band 1 for AO1 or AO2 the *social psychological* aspects of Bandura's studies must be explicit.

Two theories are required. Candidates outlining only one are exhibiting partial performance and can receive a maximum of 8 marks for AO1.

AO2: (b)

Support from research studies would be an effective method of evaluating a theory. Evaluation of the studies themselves would be relevant as it directly affects the degree of support derived from studies; however such evaluation is unlikely to move out of Band 1 *unless* implications for the theory are clearly identified.

General commentary on eg the broad nature of aggression, cultural biases in research etc, could earn marks insofar as it is placed in the context of the identified target theory. Alternative theories, such as the second theory from part (a) or evolutionary/biological approaches may be introduced. To earn AO2 marks they must be part of sustained and effective commentary on the target theory rather than part of a broad and unfocused discussion.

Where both theories are evaluated both should be marked and the best AO2 mark recorded.

AO1: (a) Outline of two social psychological theories of aggression.

Band	Mark Allocation	Marks
Band 3	Outline of two social psychological theories of aggression is	12-11
Тор	substantial. It is accurate and well-detailed. The organisation and	
	structure of the answer are coherent , with a reasonable balance	
	between the two theories.	
Band 3	Outline of two social psychological theories of aggression is	10-9
Bottom	slightly limited. It is accurate and reasonably detailed. The	
	organisation and structure of the answer are coherent , with a	
	reasonable balance between the two theories.	
Band 2	Outline of two social psychological theories of aggression is	8-7
Тор	limited. It is generally accurate and reasonably detailed. The	
	organisation and structure of the answer are reasonably	
	constructed, with a fair balance between the two theories. Partial	
	performance is substantial, accurate and well-detailed (top of band)	
	or slightly limited, accurate and reasonably detailed (bottom of	
	band).	
Band 2	Outline of two social psychological theories of aggression is basic.	6-5
Bottom	It is generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable , with a fair balance	
	between the two theories. Partial performance is limited, generally	
	accurate and reasonably detailed.	
Band 1	Outline of two social psychological theories of aggression is	4-3
Тор	rudimentary and sometimes flawed. There is some focus on the	
	question. The organization and structure of the answer are	
	reasonable with some coverage of two explanations. Partial	
	performance is basic, generally accurate and lacking detail.	
Band 1	Outline of two social psychological theories of aggression is just	2-0
Bottom	discernible. It is weak and shows muddled understanding. The	
	answer may be wholly irrelevant to the question's requirement	
	or mainly irrelevant. Partial performance is rudimentary and	
	sometimes flawed with little focus on the question.	

AO2: (b) Evaluation of one social psychological theory of aggression.

Band	Mark Allocation	Marks
Band 3	Evaluation of one social psychological theory of aggression is	12-11
Тор	thorough. The material is used in a highly effective manner and	
	shows evidence of appropriate selection and coherent	
	elaboration.	
Band 3	Evaluation of one social psychological theory of aggression is	10-9
Bottom	slightly limited. The material is used in an effective manner and	
	shows evidence of appropriate selection and elaboration.	
Band 2	Evaluation of one social psychological theory of aggression is	8-7
Тор	limited. The material is used in a reasonably effective manner	
	and shows reasonable elaboration.	
Band 2	Evaluation of one social psychological theory of aggression is	6-5
Bottom	basic. The material is used in a restricted manner and shows	
	some evidence of elaboration.	
Band 1	Evaluation of one social psychological theory of aggression is	4-3
Тор	superficial and rudimentary. The material is not used effectively	
	and shows no evidence of elaboration.	
Band 1	Evaluation of one social psychological theory of aggression is	2-0
Bottom	muddled and mainly irrelevant. The material may be wholly	
	irrelevant.	

SECTION B: PHYSIOLOGICAL PSYCHOLOGY

4 Total for this question: 24 marks

Discuss the organisation of language in the brain.

(24 marks)

AO1

The Brain and Behaviour section of the Specification contains various topics potentially relevant to this question other than language organisation. These include localisation of function, distributed functions, cortical organisation, and lateralisation and functional asymmetries. As long as the focus is on *language*, any of this material could qualify for AO1 marks.

Central to the question would be the localisation model of language developed by Geschwind and others from the original work of Wernicke and Broca in the 19th century. Candidates should be able to describe centres for production and comprehension in the left hemisphere and pathways between them. Although this model has been refined over the years there is no requirement for reference to more recent models for marks across the range.

AO2

There are several potential sources of AO2 material. Candidates are likely to refer to some of the many classic case studies, especially those of Broca and Wernicke and perhaps the splitbrain work of Sperry. Implications of findings for the organisation of language must be explicit for marks to move out of the bottom band. Relevant methodological evaluation of studies, given the problems for instance of using case studies of brain-damaged patients, could be an important source of AO2 credit.

Commentary on variations in basic language organisation associated with, for instance, gender and handedness would be an effective source of AO2, as would any reference to the evolution of language functions. The general reductionist approach of this area could also be a source of critical commentary.

AO1: Description of the organisation of language in the brain.

Band	Mark Allocation	Marks
Band 3	Description of the organisation of language in the brain is	12-11
Top	substantial. It is accurate and well-detailed. The organisation and	
	structure of the answer are coherent , with substantial evidence of	
	breadth and depth.	
Band 3	Description of the organisation of language in the brain is slightly	10-9
Bottom	limited. It is accurate and reasonably detailed. The organisation	
	and structure of the answer are coherent , with evidence of breadth	
	and depth.	
Band 2	Description of the organisation of language in the brain is limited. It	8-7
Тор	is generally accurate and reasonably detailed. The organisation	
	and structure of the answer are reasonably constructed, with	
	increasing evidence of breadth and/or depth.	
Band 2	Description of the organisation of language in the brain is basic . It	6-5
Bottom	is generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable , with some evidence of	
	breadth and/or depth.	
Band 1	Description of the organisation of language in the brain is	4-3
Top	rudimentary and sometimes flawed. There is some focus on the	
	question. The organisation and structure of the answer are	
	reasonable.	
Band 1	Description of the organisation of language in the brain is just	2-0
Bottom	discernible. It is weak and shows muddled understanding. The	
	answer may be wholly irrelevant to the question's requirement	
	or mainly irrelevant.	

AO2: Commentary on the organisation of language in the brain.

Band	Mark Allocation	Marks
Band 3	Commentary on the organisation of language in the brain is	12-11
Тор	thorough. The material is used in a highly effective manner and	
	shows evidence of appropriate selection and coherent	
	elaboration.	
Band 3	Commentary on the organisation of language in the brain is slightly	10-9
Bottom	limited. The material is used in an effective manner and shows	
	evidence of appropriate selection and elaboration.	
Band 2	Commentary on the organisation of language in the brain is limited.	8-7
Тор	The material is used in a reasonably effective manner and shows	
	reasonable elaboration.	
Band 2	Commentary on the organisation of language in the brain is basic .	6-5
Bottom	The material is used in a restricted manner and shows some	
	evidence of elaboration.	
Band 1	Commentary on the organisation of language in the brain is	4-3
Тор	superficial and rudimentary. The material is not used effectively	
	and shows no evidence of elaboration.	
Band 1	Commentary on the organisation of language in the brain is	2-0
Bottom	muddled and mainly irrelevant. The material may be wholly	
	irrelevant.	

Discuss research relating to the nature of dreams (eg content, duration, type of dream).

(24 marks)

AO1

Candidates have a number of ways to answer this question. They may describe research into the *duration* and *content* of dreams (eg symbolic approaches such as Freud, or problem-solving perspectives such as Cartright's) or the different *kinds* of dreams (eg REM and non-REM dreams, or lucid dreams). This is also an opportunity for the stages of sleep to be relevantly described in relation to dreaming.

As the term *research* includes both studies and theories, it is acceptable for candidates to refer to theories of dreaming and research studies relating to these theories. However, for such material to be relevant candidates must make clear what these theories tell us about the *nature* of dreams, rather than simply addressing the *function* of dreaming. It is likely that even if candidates focus on the functions of dreams essays will contain some material relevant to their nature. Examiners should identify and credit this material accordingly. However, to reach Band 3 for AO1, material must be shaped towards the *nature* of dreams, with effective selection of materials.

AO₂

Evaluation may take the form of alternative theoretical explanations for the phenomenom of dreams (eg content), or the extent of research support for a particular explanation or observation. The pioneering work of Dement and Kleitman on the stages of sleep, REM and dreaming would be directly relevant.

Candidates may refer to REM sleep and dreaming interchangeably. However the focus of the question is on *dreaming* and to receive credit for any references to REM (eg increased amounts in the newborn, links to learning and memory) candidates *must* maintain a clear focus on dreaming.

More general evaluation and commentary is acceptable as AO2 material, for instance the problems faced by laboratory studies of dreams (the artificial nature of the laboratory environment).

AO1: Description of research relating to the nature of dreams.

Band	Mark Allocation	Marks
Band 3	Description of research relating to the nature of dreams is	12-11
Top	substantial. It is accurate and well-detailed. The organisation and	
	structure of the answer are coherent, with substantial evidence of	
l	breadth and depth.	
Band 3	Description of research relating to the nature of dreams is slightly	10-9
Bottom	limited. It is accurate and reasonably detailed. The organisation	
	and structure of the answer are coherent , with evidence of breadth	
l	and depth.	
Band 2	Description of research relating to the nature of dreams is limited. It	8-7
Top	is generally accurate and reasonably detailed. The organisation	
	and structure of the answer are reasonably constructed, with	
l	increasing evidence of breadth and/or depth.	
Band 2	Description of research relating to the nature of dreams is basic. It	6-5
Bottom	is generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable , with some evidence of	
	breadth and/or depth.	
Band 1	Description of research relating to the nature of dreams is	4-3
Top	rudimentary and sometimes flawed. There is some focus on the	
	question. The organisation and structure of the answer are	
	reasonable.	
Band 1	Description of research relating to the nature of dreams is just	2-0
Bottom	discernible. It is weak and shows muddled understanding. The	
	answer may be wholly irrelevant to the question's requirement	
l	or mainly irrelevant.	

AO2: Evaluation of research relating to the nature of dreams.

Band	Mark Allocation	Marks
Band 3	Evaluation of research relating to the nature of dreams is thorough .	12-11
Тор	The material is used in a highly effective manner and shows	
	evidence of appropriate selection and coherent elaboration.	
Band 3	Evaluation of research relating to the nature of dreams is slightly	10-9
Bottom	limited. The material is used in an effective manner and shows	
	evidence of appropriate selection and elaboration.	
Band 2	Evaluation of research relating to the nature of dreams is limited .	8-7
Тор	The material is used in a reasonably effective manner and shows	
-	reasonable elaboration.	
Band 2	Evaluation of research relating to the nature of dreams is basic .	6-5
Bottom	The material is used in a restricted manner and shows some	
	evidence of elaboration.	
Band 1	Evaluation of research relating to the nature of dreams is	4-3
Тор	superficial and rudimentary. The material is not used effectively	
	and shows no evidence of elaboration.	
Band 1	Evaluation of research relating to the nature of dreams is muddled	2-0
Bottom	and mainly irrelevant. The material may be wholly irrelevant.	

Outline and evaluate **one or more** theories of motivation.

(24 marks)

A01

6

AO1 material should consist of an outline of one or more theories of motivation. Theories of motivation referred to in the Specification, and therefore likely to be presented, are homeostatic drive theory, expectancy theory, and drive-reduction theory.

The question is on theories of motivation, and it is important that candidates focus on the explanation of the *arousal and direction* of behaviour. With physiologically-based approaches studies on, for instance, hypothalamic lesions and feeding *must* be explicitly linked to homeostatic or drive-reduction *theories* to earn either AO1 (as illustrating theories) or AO2 marks. Similarly for studies on the peripheral mechanisms of feeding; there must be some explicit relevance to theories of motivation for marks to be credited.

AO2

Evaluation of theories of motivation is likely to focus on the degree of support from research studies and the extent to which they explain motivation in humans and non-human animals. The more physiological approaches are likely to be supported by a wealth of research evidence, but largely from non-human animals. A key problem for them is extrapolation to more complex human motivation, and in general a failure to emphasise cognitive elements in motivational states. For the more psychological models, such as Murray's Needs or incentive theory, the opposite pattern applies; a relative lack of empirical support, but an ability to explain complex human motivations.

If more than one theory is presented but additional theories are simply *described*, these may earn AO1 marks, while *explicit* use of additional theories as *evaluation* may earn AO2 marks, especially if used as part of sustained and effective commentary.

AO1: Outline of one or more theories of motivation.

Band	Mark Allocation	Marks
Band 3	Outline of one or more theories of motivation is substantial . It is	12-11
Тор	accurate and well-detailed. The organisation and structure of the	
	answer are coherent , with substantial evidence of breadth and	
	depth.	
Band 3	Outline of one or more theories of motivation is slightly limited. It	10-9
Bottom	is accurate and reasonably detailed. The organisation and	
	structure of the answer are coherent , with evidence of breadth and	
	depth.	
Band 2	Outline of one or more theories of motivation is limited . It is	8-7
Тор	generally accurate and reasonably detailed. The organisation	
	and structure of the answer are reasonably constructed, with	
	increasing evidence of breadth and/or depth.	
Band 2	Outline of one or more theories of motivation is basic . It is	6-5
Bottom	generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable, with some evidence of	
	breadth and/or depth.	
Band 1	Outline of one or more theories of motivation is rudimentary and	4-3
Тор	sometimes flawed. There is some focus on the question. The	
	organisation and structure of the answer are reasonable.	
Band 1	Outline of one or more theories of motivation is just discernible. It	2-0
Bottom	is weak and shows muddled understanding. The answer may be	
	wholly irrelevant to the question's requirement or mainly	
	irrelevant.	

AO2: Evaluation of one or more theories of motivation.

Band	Mark Allocation	Marks
Band 3	Evaluation of one or more theories of motivation is thorough . The	12-11
Тор	material is used in a highly effective manner and shows evidence	
	of appropriate selection and coherent elaboration.	
Band 3	Evaluation of one or more theories of motivation is slightly limited.	10-9
Bottom	The material is used in an effective manner and shows evidence of	
	appropriate selection and elaboration.	
Band 2	Evaluation of one or more theories of motivation is limited . The	8-7
Тор	material is used in a reasonably effective manner and shows	
	reasonable elaboration.	
Band 2	Evaluation of one or more theories of motivation is basic . The	6-5
Bottom	material is used in a restricted manner and shows some evidence	
	of elaboration.	
Band 1	Evaluation of one or more theories of motivation is superficial and	4-3
Тор	rudimentary. The material is not used effectively and shows no	
	evidence of elaboration.	
Band 1	Evaluation of one or more theories of motivation is muddled and	2-0
Bottom	mainly irrelevant. The material may be wholly irrelevant.	

SECTION C: COGNITIVE PSYCHOLOGY

7 Total for this question: 24 marks

Discuss explanations of pattern recognition (eg template and feature detection theories).

(24 marks)

AO1

AO1 description of explanations of pattern recognition can draw on models mentioned in the Specification (template and feature detection), or on any other relevant models, such as prototype theory. Although the Specification refers to Hubel & Wiesel's biological feature detection and top-down/bottom-up processing separately from theories of pattern recognition, these are all relevant to aspects of pattern recognition and are acceptable as answers to this question. However the emphasis must be on pattern recognition and not on other perceptual issues or general theories of perception (eg constructivist versus direct theories)

AO2

The most accessible route to AO2 credit would be the use of research findings. There are a large number of studies in this area and each of the major explanations can be linked to supporting and contradictory evidence. In addition explanations can be evaluated more generally, in terms of their flexibility and how well they explain various perceptual phenomena such as context effects.

If studies are used AO2 marks cannot move out of Band 1 unless the implications of findings for explanations are explicit.

Candidates are required to discuss at least two explanations of pattern recognition. Those covering only one are exhibiting partial performance and can receive a maximum of 8 marks for AO1 and 8 marks for AO2.

AO1: Description of explanations of pattern recognition.

Band	Mark Allocation	Marks
Band 3	Description of explanations of pattern recognition is substantial. It	12-11
Тор	is accurate and well-detailed. The organisation and structure of	
	the answer are coherent , with substantial evidence of breadth	
	and depth.	
Band 3	Description of explanations of pattern recognition is slightly	10-9
Bottom	limited. It is accurate and reasonably detailed. The organisation	
	and structure of the answer are coherent , with evidence of breadth	
	and depth.	
Band 2	Description of explanations of pattern recognition is limited . It is	8-7
Тор	generally accurate and reasonably detailed. The organisation	
	and structure of the answer are reasonably constructed , with	
	increasing evidence of breadth and/or depth. Partial performance	
	is substantial, accurate and well-detailed (top of band) or slightly	
	limited, accurate and reasonably detailed (bottom of band)	
Band 2	Description of explanations of pattern recognition is basic . It is	6-5
Bottom	generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable , with some evidence of	
	breadth and/or depth. Partial performance is limited, generally	
	accurate and reasonably detailed.	
Band 1	Description of explanations of pattern recognition is rudimentary	4-3
Тор	and sometimes flawed. There is some focus on the question. The	
	organisation and structure of the answer are reasonable. Partial	
	performance is basic, generally accurate and lacking detail.	
Band 1	Description of explanations of pattern recognition is just	2-0
Bottom	discernible. It is weak and shows muddled understanding. The	
	answer may be wholly irrelevant to the question's requirement	
	or mainly irrelevant. Partial performance is rudimentary and	
	sometimes flawed with little focus on the question.	

AO2: Evaluation of explanations of pattern recognition.

Band	Mark Allocation	Marks
Band 3	Evaluation of explanations of pattern recognition is thorough . The	12-11
Тор	material is used in a highly effective manner and shows evidence	
	of appropriate selection and coherent elaboration.	
Band 3	Evaluation of explanations of pattern recognition is slightly limited .	10-9
Bottom	The material is used in an effective manner and shows evidence of	
	appropriate selection and elaboration.	
Band 2	Evaluation of explanations of pattern recognition is limited . The	8-7
Тор	material is used in a reasonably effective manner and shows	
	reasonable elaboration. Partial performance is thorough,	
	coherent, and shows highly effective use of material (top of band) or	
	slightly limited with effective use of material (bottom of band).	
Band 2	Evaluation of explanations of pattern recognition is basic . The	6-5
Bottom	material is used in a restricted manner and shows some evidence	
	of elaboration. Partial performance is limited with reasonable	
	elaboration, with reasonably effective use of material.	
Band 1	Evaluation of explanations of pattern recognition is superficial and	4-3
Тор	rudimentary. The material is not used effectively and shows no	
	evidence of elaboration. Partial performance is basic with some	
	evidence of elaboration; restricted use of material.	
Band 1	Evaluation of explanations of pattern recognition is muddled and	2-0
Bottom	mainly irrelevant. The material may be wholly irrelevant. Partial	
	performance is superficial with no evidence of elaboration, and	
	material is not used effectively.	

With reference to explanations of perceptual development, discuss the nature-nurture debate in perception. (24 marks)

AO1

8

There are various ways in which candidates may approach this question. The focus should be on the nature-nurture debate in perception, and description of this would qualify for AO1 marks. They are likely to introduce some of the many relevant studies on perceptual development as AO2 support for either nature or nurture positions. If studies are not used explicitly as AO2 material they may earn AO1 marks as *illustrating* the nature-nurture debate.

Alternatively the candidate may focus on explanations of perceptual development in the context of the nature-nurture debate without *explicitly* outlining the debate. However it is likely that it would be contextualised sufficiently for such material – explanations and nature-nurture – to be given AO1 credit as generally illustrating the nature-nurture debate.

References to Piaget should not be automatically discounted, as several of his studies were directly on perceptual development eg three mountains task.

AO2

This is an area where relevant studies are easily accessible and research findings are likely to provide the bulk of AO2 material, as supporting either nature or nurture positions. Particularly credit-worthy would be a consideration of the strength of opposing arguments or other general issues such as the difficulty of separating nature from nurture. Evidence should be taken from explanations and studies of *perceptual development*, given the subsection of the Specification. Candidates may be tempted to introduce material from other areas such as research into IQ; such answers, where the nature-nurture debate is discussed but without reference to perceptual development, can receive a maximum of 4 marks for AO1 and 4 marks for AO2.

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AO1: Description of the nature-nurture debate in perception with reference to explanations of perceptual development.

Band	Mark Allocation	Marks
Band 3 Top	Description of the nature-nurture debate in perception with reference to explanations of perceptual development is substantial . It is accurate and well-detailed . The organisation and structure of the answer are coherent , with substantial evidence of breadth and depth.	12-11
Band 3 Bottom	Description of the nature-nurture debate in perception with reference to explanations of perceptual development is slightly limited . It is accurate and reasonably detailed . The organisation and structure of the answer are coherent , with evidence of breadth and depth.	10-9
Band 2 Top	Description of the nature-nurture debate in perception with reference to explanations of perceptual development is limited . It is generally accurate and reasonably detailed . The organisation and structure of the answer are reasonably constructed , with increasing evidence of breadth and/or depth.	8-7
Band 2 Bottom	Description of the nature-nurture debate in perception with reference to explanations of perceptual development is basic . It is generally accurate but lacks detail . The organisation and structure of the answer are reasonable , with some evidence of breadth and/or depth.	6-5
Band 1 Top	Description of the nature-nurture debate in perception with reference to explanations of perceptual development is rudimentary and sometimes flawed. There is some focus on the question. The organisation and structure of the answer are reasonable.	4-3
Band 1 Bottom	Description of the nature-nurture debate in perception with reference to explanations of perceptual development is just discernible or mainly irrelevant. It is weak and shows muddled understanding. The answer may be wholly irrelevant to the question's requirement.	2-0

AO2: Evaluation of the nature-nuture debate in perception with reference to explanations of perceptual development.

Band	Mark Allocation	Marks
Band 3	Evaluation of the nature-nurture debate in perception with reference to	12-11
Top	explanations of perceptual development is thorough . The material is used	
	in a highly effective manner and shows evidence of appropriate selection	
	and coherent elaboration.	
Band 3	Evaluation of the nature-nurture debate in perception with reference to	10-9
Bottom	explanations of perceptual development is slightly limited . The material is	
	used in an effective manner and shows evidence of appropriate selection	
	and elaboration.	
Band 2	Evaluation of the nature-nurture debate in perception with reference to	8-7
Top	explanations of perceptual development is limited . The material is used in	
	a reasonably effective manner and shows reasonable elaboration.	
Band 2	Evaluation of the nature-nurture debate in perception with reference to	6-5
Bottom	explanations of perceptual development is basic. The material is used in a	
	restricted manner and shows some evidence of elaboration.	
Band 1	Evaluation of the nature-nurture debate in perception with reference to	4-3
Top	explanations of perceptual development is superficial and rudimentary.	
	The material is not used effectively and shows no evidence of	
	elaboration.	
Band 1	Evaluation of the nature-nurture debate in perception with reference to	2-0
Bottom	explanations of perceptual development is muddled and mainly irrelevant.	
	The material may be wholly irrelevant.	

Describe and evaluate research into problem-solving.

(24 marks)

AO1

9

'Research' can include both theoretical approaches and research studies, and therefore AO1 material could include theories/models of problem-solving behaviour or descriptions of research studies. The Specification guides the candidates to problem-solving strategies including Gestalt and information processing approaches such as means-end analysis, and these are likely to feature in most essays. Developments of the Gestalt approach, including Kohler's work on 'insight' in primates, would also be relevant. Both Gestalt and information processing approaches involve a number of accessible principles and studies and either alone could be covered in sufficient detail to access the higher AO1 bands. Obviously candidates may introduce other approaches to problem-solving behaviour, such as Wason's classic work, Newell and Simon's General Problem Solver, and other computer-based approaches. Candidates choosing to cover more than one approach will clearly provide less depth but more breadth.

Decision-making is presented as a separate topic in the Specification, but can overlap with problem-solving behaviour. Essays focusing on decision-making should be looked at carefully for any material relevant to the question.

AO2

AO2 marks may be accessed in various ways. Research support for different models and strategies is widely accessible, especially the early work of the Gestalt psychologists, although many of these studies can be criticised methodologically and this too would be relevant to the question. A different level of support for information-processing approaches would be the use of computer-modelling to develop and test different heuristics. This then leads to further issues such as the success (or not) of different strategies to account for problem solving in the real world, and phenomena such as insight learning.

AO1: Description of research into problem-solving.

Band	Mark Allocation	Marks
Band 3	Description of research into problem-solving is substantial . It is	12-11
Top	accurate and well-detailed. The organisation and structure of the	
	answer are coherent , with substantial evidence of breadth and	
	depth.	
Band 3	Description of research into problem-solving is slightly limited. It is	10-9
Bottom	accurate and reasonably detailed. The organisation and structure	
	of the answer are coherent , with evidence of breadth and depth.	
Band 2	Description of research into problem-solving is limited. It is	8-7
Top	generally accurate and reasonably detailed. The organisation	
	and structure of the answer are reasonably constructed, with	
	increasing evidence of breadth and/or depth.	
Band 2	Description of research into problem-solving is basic . It is	6-5
Bottom	generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable , with some evidence of	
	breadth and/or depth.	
Band 1	Description of research into problem-solving is rudimentary and	4-3
Top	sometimes flawed. There is some focus on the question. The	
	organisation and structure of the answer are reasonable.	
Band 1	Description of research into problem-solving is just discernible or	2-0
Bottom	mainly irrelevant. It is weak and shows muddled understanding.	
	The answer may be wholly irrelevant to the question's	
	requirement.	

AO2: Evaluation of research into problem-solving.

Band	Mark Allocation	Marks
Band 3	Evaluation of research into problem-solving is thorough. The	12-11
Тор	material is used in a highly effective manner and shows evidence	
	of appropriate selection and coherent elaboration.	
Band 3	Evaluation of research into problem-solving is slightly limited. The	10-9
Bottom	material is used in an effective manner and shows evidence of	
	appropriate selection and elaboration.	
Band 2	Evaluation of research into problem-solving is limited. The material	8-7
Тор	is used in a reasonably effective manner and shows reasonable	
	elaboration.	
Band 2	Evaluation of research into problem-solving is basic. The material	6-5
Bottom	is used in a restricted manner and shows some evidence of	
	elaboration.	
Band 1	Evaluation of research into problem-solving is superficial and	4-3
Тор	rudimentary. The material is not used effectively and shows no	
	evidence of elaboration.	
Band 1	Evaluation of research into problem-solving is muddled and	2-0
Bottom	mainly irrelevant. The material may be wholly irrelevant.	

SECTION D: DEVELOPMENTAL PSYCHOLOGY

10 Total for this question: 24 marks

(a) Outline **two** theories of cognitive development.

(12 marks)

(b) Evaluate **one** of the theories of cognitive development that you have outlined in part (a).

(12 marks)

AO1: (a)

AO1 material is likely to focus on the theories of Piaget and Vygotsky. The test for the candidates is to present outlines that are concise and focus on key elements of the two theories, such as underlying processes and the stages of development (Piaget), and the role of language, culture and social support (Vygotsky). For marks in the top band the two outlines need to be reasonably balanced, but it is essential that essays are assessed in the context of providing two outlines in approximately 15 minutes.

Candidates occasionally cannot inhibit themselves from providing evaluative material when outlining theories. The exporting rule allows that when material can not earn marks in one question part but which would earn marks in another question part, should be exported to that part.

Candidates are required to outline two theories. Those presenting only one are exhibiting partial performance and can earn a maximum of 8 marks for AO1.

AO2: (b)

Candidates are only required to evaluate one of the theories outlined in (a). Either theory can be evaluated in a variety of ways. For both there is wealth of relevant research used to evaluate the theories directly. The Specification also guides candidates to applications, and this too would be an effective source of AO2 material, especially in the area of education. Further general commentary could include the overall significance of the work of Piaget and Vygotsky in the field of child development.

Some candidates may use a second theory to evaluate the target theory. This is credit-worthy as long as it is used as part of sustained and effective commentary focusing on the target theory, rather than as a separate section of the answer.

AO1: Brief outline of two theories of cognitive development.

Band	Mark Allocation	Marks
Band 3	Outline of two theories of cognitive development is substantial . It is	12-11
Тор	accurate and well-detailed. The organisation and structure of the	
	answer are coherent , with a reasonable balance between the two	
	theories.	
Band 3	Outline of two theories of cognitive development is slightly limited.	10-9
Bottom	It is accurate and reasonably detailed. The organisation and	
	structure of the answer are coherent , with a reasonable balance	
	between the two theories.	
Band 2	Outline of two theories of cognitive development is limited . It is	8-7
Тор	generally accurate and reasonably detailed. The organisation	
	and structure of the answer are reasonably constructed , with a	
	fair balance between the two theories. Partial performance is	
	substantial, accurate and well-detailed (top of band) or slightly	
	limited, accurate and reasonably detailed (bottom of band).	
Band 2	Outline of two theories of cognitive development is basic . It is	6-5
Bottom	generally accurate but lacks detail. The organisation and	
	structure of the answer are reasonable , with a fair balance	
	between the two theories. Partial performance is limited, generally	
	accurate and reasonably detailed.	
Band 1	Outline of two theories of cognitive development is rudimentary	4-3
Тор	and sometimes flawed. There is some focus on the question. The	
	organisation and structure of the answer are reasonable, with	
	some coverage of two theories. Partial performance is basic,	
	generally accurate and lacking detail.	
Band 1	Outline of two theories of cognitive development is just discernible	2-0
Bottom	or mainly irrelevant. It is weak and shows muddled	
	understanding. The answer may be wholly irrelevant to the	
	question's requirement. Partial performance is rudimentary and	
	sometimes flawed with little focus on the question.	

AO2: Evaluation of one theory of cognitive development.

Band	Mark Allocation	Marks
Band 3	Evaluation of one theory of cognitive development is thorough. The	12-11
Тор	material is used in a highly effective manner and shows evidence	
	of appropriate selection and coherent elaboration.	
Band 3	Evaluation of one theory of cognitive development is slightly	10-9
Bottom	limited. The material is used in an effective manner and shows	
	evidence of appropriate selection and elaboration.	
Band 2	Evaluation of one theory of cognitive development is limited . The	8-7
Тор	material is used in a reasonably effective manner and shows	
	reasonable elaboration.	
Band 2	Evaluation of one theory of cognitive development is basic . The	6-5
Bottom	material is used in a restricted manner and shows some evidence	
	of elaboration.	
Band 1	Evaluation of one theory of cognitive development is superficial	4-3
Тор	and rudimentary. The material is not used effectively and shows	
	no evidence of elaboration.	
Band 1	Evaluation of one theory of cognitive development is muddled and	2-0
Bottom	mainly irrelevant. The material may be wholly irrelevant.	

Discuss explanations for the development of gender identity **and/or** gender roles. (24 marks)

AO1

There are various explanations for the development of gender identity/gender roles, such as social learning theory, psychoanalytic theory, and cognitive-developmental approaches. The distinction between gender roles and gender identity has now disappeared from the Specification and candidates need not specify what aspect they are addressing to earn marks across the scale.

Other developmental areas such as moral development are unlikely to be relevant unless there is a specific focus on implications for gender identity/roles. Equally, a *general* consideration of eg social learning theory or Freudian approaches that does not focus on gender identity/roles cannot move beyond Band 1. Biological models of gender development are not excluded, but again the focus must be on gender identity/roles

This is an area where candidates often use studies to *illustrate* explanations rather than explicitly as AO2 evaluative material, and such illustration can earn AO1 marks.

AO2

Evaluation of explanations may be based on research support, although research studies should not be double credited (see above). Studies may themselves be criticised, but unless the implication of such methodological criticisms for explanations is explicit they cannot move out of Band 1 for AO2. An alternative approach would be to consider how well explanations account for general features of gender identity/roles such as developmental trajectories. Alternative explanations may be used to evaluate a target explanation but can gain marks only if used as part of effective evaluation rather than simply described; in the latter case they may earn AO1 marks.

Candidates are required to cover at least two explanations. Those covering only one are exhibiting partial performance and can receive a maximum of 8 marks for AO1 and 8 marks for AO2.

AO1: Description of explanations for the development of gender identity and/or gender roles.

Band	Mark Allocation	Marks
Band 3	Description of explanations for the development of gender identity	12-11
Top	and/or gender roles is substantial. It is accurate and well-	
	detailed. The organisation and structure of the answer are	
	coherent, with substantial evidence of breadth and depth.	
Band 3	Description of explanations for the development of gender identity	10-9
Bottom	and/or gender roles is slightly limited. It is accurate and	
	reasonably detailed. The organisation and structure of the answer	
	are coherent , with evidence of breadth and depth.	
Band 2	Description of explanations for the development of gender identity	8-7
Тор	and/or gender roles is limited. It is generally accurate and	
	reasonably detailed. The organisation and structure of the answer	
	are reasonably constructed, with increasing evidence of breadth	
	and/or depth. Partial performance is substantial, accurate and well-	
	detailed (top of band) or slightly limited, accurate and reasonably	
	detailed (bottom of band).	
Band 2	Description of explanations for the development of gender identity	6-5
Bottom	and/or gender roles is basic. It is generally accurate but lacks	
	detail. The organisation and structure of the answer are	
	reasonable, with some evidence of breadth and/or depth. Partial	
D = := -1.4	performance is limited, generally accurate and reasonably detailed.	4.0
Band 1	Description of explanations for the development of gender identity	4-3
Тор	and/or gender roles is rudimentary and sometimes flawed. There	
	is some focus on the question. The organisation and structure of	
	the answer are reasonable . Partial performance is basic, generally	
Daniel 4	accurate and lacking detail.	2.0
Band 1	Description of explanations for the development of gender identity	2-0
Bottom	and/or gender roles is just discernible or mainly irrelevant. It is	
	weak and shows muddled understanding. The answer may be	
	wholly irrelevant to the question's requirement. Partial	
	performance is rudimentary and sometimes flawed with little focus	
	on the question.	

AO2: Evaluation of explanations for the development of gender identity and/or gender roles.

Band	Mark Allocation	Marks
Band 3	Evaluation of explanations for the development of gender identity	12-11
Тор	and/or gender roles is thorough . The material is used in a highly	
	effective manner and shows evidence of appropriate selection	
	and coherent elaboration.	
Band 3	Evaluation of explanations for the development of gender identity	10-9
Bottom	and/or gender roles is slightly limited. The material is used in an	
	effective manner and shows evidence of appropriate selection	
	and elaboration.	
Band 2	Evaluation of explanations for the development of gender identity	8-7
Тор	and/or gender roles is limited. The material is used in a	
	reasonably effective manner and shows reasonable elaboration.	
	Partial performance is thorough, coherent, and shows highly	
	effective use of material (top of band) or slightly limited with	
-	effective use of material (bottom of band).	
Band 2	Evaluation of explanations for the development of gender identity	6-5
Bottom	and/or gender roles is basic . The material is used in a restricted	
	manner and shows some evidence of elaboration. Partial	
	performance is limited with reasonable elaboration, with reasonably	
Band 1	effective use of material.	4-3
Тор	Evaluation of explanations for the development of gender identity and/or gender roles is superficial and rudimentary. The material	4-3
тор	is not used effectively and shows no evidence of elaboration.	
	Partial performance is basic with some evidence of elaboration;	
	restricted use of material.	
Band 1	Evaluation of explanations for the development of gender identity	2-0
Bottom	and/or gender roles is muddled and mainly irrelevant. The	2-0
Dottoili	material may be wholly irrelevant. Partial performance is	
	superficial with no evidence of elaboration, and material is not used	
	effectively.	

Discuss **one or more** explanations of adjustment to old age (eg social disengagement theory). (24 marks)

AO1

12

AO1 material could include a range of explanations such as social disengagement theory, activity theory, and selectivity theory. Alternatively candidates may focus on adjustments to specific aspects of old age, such as retirement or bereavement. To earn marks this would have to be embedded in theoretical models such as Erikson's psychosocial stages or Kubler-Ross's stages of dying; straightforward listing of phenomena associated with ageing would earn marks restricted to Band 1.

Candidates may choose to describe cognitive changes in old age, such as effects on intelligence, memory, learning and problem solving. As long as such material includes a focus on how people *adjust* to these changes it can be credited.

AO2

AO2 material will vary according to the approach taken by the candidate. Theories can be evaluated through research support or their ability to account for observations on adjustments to old age. Candidates choosing to focus on specific aspects of old age, such as retirement, bereavement or cognitive changes, and explanations for these, may use research support and perhaps cultural variations in these adjustments and changes.

An issue that can arise in this area is the lack of a precise definition of 'old age'. A practical threshold would be retirement age or older, although examiners should use their judgement where necessary. Material covering much younger ages would not be creditworthy.

AO1: Description of one or more explanations of adjustment to old age.

Band	Mark Allocation	Marks			
Band 3	Description of one or more explanations of adjustment to old age				
Тор	is substantial . It is accurate and well-detailed . The organisation				
	and structure of the answer are coherent , with substantial				
	evidence of breadth and depth.				
Band 3	Description of one or more explanations of adjustment to old age	10-9			
Bottom	is slightly limited. It is accurate and reasonably detailed. The				
	organisation and structure of the answer are coherent , with				
	evidence of breadth and depth.				
Band 2	Description of one or more explanations of adjustment to old age	8-7			
Тор	is limited. It is generally accurate and reasonably detailed. The				
	organisation and structure of the answer are reasonably				
	constructed, with increasing evidence of breadth and/or depth.				
Band 2	Description of one or more explanations of adjustment to old age	6-5			
Bottom	is basic. It is generally accurate but lacks detail. The				
	organisation and structure of the answer are reasonable, with				
	some evidence of breadth and/or depth.				
Band 1	Description of one or more explanations of adjustment to old age	4-3			
Top	is rudimentary and sometimes flawed. There is some focus on				
	the question. The organisation and structure of the answer are				
	reasonable.				
Band 1	Description of one or more explanations of adjustment to old age	2-0			
Bottom	is just discernible or mainly irrelevant. It is weak and shows				
	muddled understanding. The answer may be wholly irrelevant to				
	the question's requirement.				

AO2: Evaluation of one or more explanations of adjustment to old age.

Band	Mark Allocation	Marks
Band 3	Evaluation of one or more explanations of adjustment to old age is	12-11
Тор	thorough. The material is used in a highly effective manner and	
	shows evidence of appropriate selection and coherent	
	elaboration.	
Band 3	Evaluation of one or more explanations of adjustment to old age is	10-9
Bottom	slightly limited. The material is used in an effective manner and	
	shows evidence of appropriate selection and elaboration.	
Band 2	Evaluation of one or more explanations of adjustment to old age is	8-7
Тор	limited. The material is used in a reasonably effective manner	
	and shows reasonable elaboration.	
Band 2	Evaluation of one or more explanations of adjustment to old age is	6-5
Bottom	basic. The material is used in a restricted manner and shows	
	some evidence of elaboration.	
Band 1	Evaluation of one or more explanations of adjustment to old age is	4-3
Тор	superficial and rudimentary. The material is not used effectively	
	and shows no evidence of elaboration.	
Band 1	Evaluation of one or more explanations of adjustment to old age is	2-0
Bottom	muddled and mainly irrelevant. The material may be wholly	
	irrelevant.	

SECTION E: COMPARATIVE PSYCHOLOGY

Total for this question: 24 marks

Discuss **one or more** evolutionary explanations of the behaviour of non-human animals.

(24 marks)

AO1

This is a broad question and candidates have a wide range of AO1 material to draw on. A broad approach would be to describe major explanations such as natural selection and sexual selection and their role in understanding many aspects of animal behaviour, using examples to illustrate points. Alternatively candidates may focus on particular examples of behaviour and consider evolutionary explanations of these behaviours. The most likely examples would be from this section of the Specification ie kin selection and, in particular, altruism. As long as the context and focus are on *evolutionary explanations* this is an acceptable approach to the question.

The question refers to non-human animals and material from the human perspective cannot earn marks unless used to illustrate or comment upon work with non-human animals.

AO2

AO2 material may come in a variety of forms depending on the approach taken by the candidate. Broad approaches such as natural selection can be assessed as to their general status and the degree to which they successfully account for animal behaviour. Developments of traditional Darwinian theory, such as Dawkin's selfish gene, could also count as relevant commentary.

Candidates focusing on specific examples of animal behaviour such as altruism, may also discuss the problems it raises for evolutionary approaches and bring in more contemporary views. However, as with AO1, the discussion must focus on evolutionary explanations rather then altruism per se. If examples of animal behaviour are not clearly used to evaluate evolutionary explanations, they may earn AO1 marks as illustrating evolutionary explanations.

AO1: Description of one or more evolutionary explanations of the behaviour of non-human animals.

Band	Mark Allocation	Marks		
Band 3	Description of one or more evolutionary explanations is			
Top	substantial. It is accurate and well-detailed. The organisation and			
	structure of the answer are coherent , with substantial evidence of			
	breadth and depth.			
Band 3	Description of one or more evolutionary explanations is slightly	10-9		
Bottom	limited. It is accurate and reasonably detailed. The organisation			
	and structure of the answer are coherent , with evidence of breadth			
	and depth.			
Band 2	Description of one or more evolutionary explanations is limited. It is	8-7		
Тор	generally accurate and reasonably detailed. The organisation			
	and structure of the answer are reasonably constructed, with			
	increasing evidence of breadth and/or depth.			
Band 2	Description of one or more evolutionary explanations is basic . It is	6-5		
Bottom	generally accurate but lacks detail. The organisation and			
	structure of the answer are reasonable , with some evidence of			
	breadth and/or depth.			
Band 1	Description of one or more evolutionary explanations is	4-3		
Тор	rudimentary and sometimes flawed. There is some focus on the			
	question. The organisation and structure of the answer are			
	reasonable.			
Band 1	Description of one or more evolutionary explanations is just	2-0		
Bottom	discernible or mainly irrelevant. It is weak and shows muddled			
	understanding. The answer may be wholly irrelevant to the			
	question's requirement.			

AO2: Evaluation of one or more evolutionary explanations of the behaviour of non-human animals.

Band	Mark Allocation	Marks
Band 3	Evaluation of one or more evolutionary explanations is thorough .	12-11
Top	The material is used in a highly effective manner and shows	
	evidence of appropriate selection and coherent elaboration.	
Band 3	Evaluation of one or more evolutionary explanations is slightly	10-9
Bottom	limited. The material is used in an effective manner and shows	
	evidence of appropriate selection and elaboration.	
Band 2	Evaluation of one or more evolutionary explanations is limited . The	8-7
Top	material is used in a reasonably effective manner and shows	
	reasonable elaboration.	
Band 2	Evaluation of one or more evolutionary explanations is basic. The	6-5
Bottom	material is used in a restricted manner and shows some evidence	
	of elaboration.	
Band 1	Evaluation of one or more evolutionary explanations is superficial	4-3
Тор	and rudimentary. The material is not used effectively and shows	
	no evidence of elaboration.	
Band 1	Evaluation of one or more evolutionary explanations is muddled	2-0
Bottom	and mainly irrelevant. The material may be wholly irrelevant.	

Outline and evaluate the use of **two or more** signalling systems in non-human animals.

(24 marks)

AO1

Signalling systems used by non-human animals come in a variety of forms, including visual, auditory, and olfactory. Relevant AO1 could include an overview of signals and their role in eg courtship/mating, food sources, threats, social communication, and the links between signals and fitness (eg the differences between communication, eavesdropping, and deceit). Variation is likely in the accuracy and detail of accounts, especially in outlining the *role* of signalling systems.

Signalling systems can overlap with language and some candidates may take the route of discussing animal language per se. Behaviours such as the bee's waggle dance and even the use of ASL and key symbols by primates are signalling systems, but can only earn marks if discussed as signalling systems; otherwise such material is limited to the top of Band 1 for AO1 and AO2.

AO2

General commentary on the variety of systems and their specific functions, particularly if illustrated by examples, would earn AO2 marks. More effective might be an evaluation and/or comparison of different systems in terms of their effectiveness. This could include vulnerability to darkness, weather conditions, vulnerability to eavesdropping/predators, complexity of the possible messages, distance etc.

There is a requirement for candidates to consider at least two signalling systems; this requirement can be met by either consideration of two systems in different modalities or two systems in the same modality. If this requirement is not met, candidates are exhibiting partial performance and can receive a maximum of 8 marks for AO1 and 8 marks for AO2.

AO1: Outline of the use of two or more signalling systems in non-human animals.

Band	Mark Allocation	Marks			
Band 3	Outline of the use of two or more signalling systems is substantial .	12-11			
Тор	It is accurate and well-detailed. The organisation and structure of				
	the answer are coherent , with substantial evidence of breadth				
	and depth.				
Band 3	Outline of the use of two or more signalling systems is slightly	10-9			
Bottom	limited. It is accurate and reasonably detailed. The organisation				
	and structure of the answer are coherent , with evidence of breadth				
	and depth.				
Band 2	Outline of the use of two or more signalling systems is limited . It is	8-7			
Тор	generally accurate and reasonably detailed. The organisation				
	and structure of the answer are reasonably constructed , with				
	increasing evidence of breadth and/or depth. Partial performance				
	is substantial, accurate and well-detailed (top of band) or slightly				
	limited, accurate and reasonably detailed (bottom of band).				
Band 2	Outline of the use of two or more signalling systems is basic . It is	6-5			
Bottom	generally accurate but lacks detail. The organisation and				
	structure of the answer are reasonable , with some evidence of				
	breadth and/or depth. Partial performance is limited, generally				
D = = = 1.4	accurate and reasonably detailed.	4.0			
Band 1	Outline of the use of two or more signalling systems is rudimentary	4-3			
Тор	and sometimes flawed. There is some focus on the question. The				
	organisation and structure of the answer are reasonable . Partial				
Daniel 4	performance is basic, generally accurate and lacking detail.	2.0			
Band 1	Outline of the use of two or more signalling systems is just	2-0			
Bottom	discernible or mainly irrelevant. It is weak and shows muddled				
	understanding. The answer may be wholly irrelevant to the				
	question's requirement. Partial performance is rudimentary and				
	sometimes flawed with little focus on the question.				

AO2: Evaluation of the use of two or more signalling systems in non-human animals.

Band	Mark Allocation	Marks
Band 3	Evaluation of the use of two or more signalling systems is	
Top	thorough. The material is used in a highly effective manner and	
	shows evidence of appropriate selection and coherent	
	elaboration.	
Band 3	Evaluation of the use of two or more signalling systems is slightly	10-9
Bottom	limited. The material is used in an effective manner and shows	
	evidence of appropriate selection and elaboration.	
Band 2	Evaluation of the use of two or more signalling systems is limited.	8-7
Top	The material is used in a reasonably effective manner and shows	
	reasonable elaboration. Partial performance is thorough,	
	coherent, and shows highly effective use of material (top of band) or	
	slightly limited with effective use of material (bottom of band).	
Band 2	Evaluation of the use of two or more signalling systems is basic .	6-5
Bottom	The material is used in a restricted manner and shows some	
	evidence of elaboration. Partial performance is limited with	
	reasonable elaboration, with reasonably effective use of material.	
Band 1	Evaluation of the use of two or more signalling systems is	4-3
Top	superficial and rudimentary. The material is not used effectively	
	and shows no evidence of elaboration . Partial performance is	
	basic with some evidence of elaboration; restricted use of material.	
Band 1	Evaluation of the use of two or more signalling systems is muddled	2-0
Bottom	and mainly irrelevant. The material may be wholly irrelevant.	
	Partial performance is superficial with no evidence of elaboration,	
	and material is not used effectively.	

- (a) Outline and evaluate **one or more** evolutionary explanations of depression. (12 marks)
- (b) Outline and evaluate **one or more** evolutionary explanations of anxiety disorders. (12 marks)

AO1: (a) and (b)

For both depression and anxiety disorders there are several evolutionary explanations available, such as social regulation and competition (depression), and preparedness and harm avoidance (phobias and obsessive compulsive disorders). More general considerations, such as the EEA and the persistence of apparently maladaptive traits, may qualify for AO1 marks or as AO2 commentary depending on the context.

Candidates are required to outline and evaluate for 12 marks; examiners need to be sensitive to the time constraints of this question and the fact that depth/detail will be limited even in top band answers.

AO2: (a) and (b)

There are a variety of routes to AO2 credit. Contemporary research studies are relevant to, for instance, phobias and preparedness, while symptoms of depression can be directly related to evolutionary explanations. Candidates may also comment on the speculative nature of many hypotheses and the difficulty of obtaining direct evidence. Alternative contemporary models of depression and anxiety can qualify for AO2 credit *if* used as part of sustained and effective evaluation, rather than simply being described.

AO1: Outline of one or more evolutionary explanations.

Band	Band Mark Allocation			
Band 3	Outline of one or more evolutionary explanations is substantial . It	6		
Top	is accurate and well-detailed. The organisation and structure of			
	the answer are coherent .			
Band 3	Outline of one or more evolutionary explanations is slightly limited .	5		
Bottom	It is accurate and reasonably detailed. The organisation and			
	structure of the answer are coherent.			
Band 2	Outline of one or more evolutionary explanations is limited. It is	4		
Top	generally accurate and reasonably detailed. The organisation			
	and structure of the answer are reasonably constructed.			
Band 2	Outline of one or more evolutionary explanations is basic. It is	3		
Bottom	generally accurate but lacks detail. The organisation and			
	structure of the answer are reasonable.			
Band 1	Outline of one or more evolutionary explanations is rudimentary	2		
Top	and sometimes flawed. There is some focus on the question. The			
	organisation and structure of the answer are reasonable.			
Band 1	Outline of one or more evolutionary explanations is just	0-1		
Bottom	discernible or mainly irrelevant. It is weak and shows muddled			
	understanding. The answer may be wholly irrelevant to the			
	question's requirement.			

AO2: Evaluation of one or more evolutionary explanations.

- Levaluation of the of more evolutionary explanations.		
Band	Mark Allocation	Marks
Band 3	Evaluation of one or more evolutionary explanations is thorough.	6
Тор	The material is used in a highly effective manner and shows	
	evidence of appropriate selection and coherent elaboration.	
Band 3	Evaluation of one or more evolutionary explanations is slightly	5
Bottom	limited. The material is used in an effective manner and shows	
	evidence of appropriate selection and elaboration.	
Band 2	Evaluation of one or more evolutionary explanations is limited . The	4
Тор	material is used in a reasonably effective manner and shows	
	reasonable elaboration.	
Band 2	Evaluation of one or more evolutionary explanations is basic. The	3
Bottom	material is used in a restricted manner and shows some evidence	
	of elaboration.	
Band 1	Evaluation of one or more evolutionary explanations is superficial	2
Тор	and rudimentary. The material is not used effectively and shows	
	no evidence of elaboration.	
Band 1	Evaluation of one or more evolutionary explanations is muddled	0-1
Bottom	and mainly irrelevant. The material may be wholly irrelevant.	

A LEVEL/A2 UNIT 4: ASSESSMENT GRID

Question Number	AO1	AO2
1	12	12
2	12	12
3(a)	12	
3(b)		12
4	12	12
5	12	12
6	12	12
7	12	12
8	12	12
9	12	12
10(a)	12	
10(b)		12
11	12	12
12	12	12
13	12	12
14	12	12
15(a)	6	6
15(b)	6	6

Marks	AO1	AO2	QoWC
Total marks for 3 questions	36	36	4
A-Level total weighting (15%)	7.8%	7.2%	