

# Markscheme

**November 2021**

**Psychology**

**Higher level**

**Paper 2**

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**Paper 2 assessment criteria****Criterion A — Focus on the question****[2]**

To understand the requirements of the question students must identify the problem or issue being raised by the question. Students may simply identify the problem by restating the question or breaking down the question. Students who go beyond this by **explaining** the problem are showing that they understand the issues or problems.

<b>Marks</b>	<b>Level descriptor</b>
<b>0</b>	Does not reach the standard described by the descriptors below.
<b>1</b>	Identifies the problem/issue raised in the question.
<b>2</b>	Explains the problem/issue raised in the question.

**Criterion B — Knowledge and understanding****[6]**

This criterion rewards students for demonstrating their knowledge and understanding of specific areas of psychology. It is important to credit **relevant** knowledge and understanding that is **targeted** at addressing the question and explained in sufficient detail.

<b>Marks</b>	<b>Level descriptor</b>
<b>0</b>	Does not reach the standard described by the descriptors below.
<b>1 – 2</b>	The response demonstrates limited relevant knowledge and understanding. Psychological terminology is used but with errors that hamper understanding.
<b>3 – 4</b>	The response demonstrates relevant knowledge and understanding but lacks detail. Psychological terminology is used but with errors that do not hamper understanding.
<b>5 – 6</b>	The response demonstrates relevant, detailed knowledge and understanding. Psychological terminology is used appropriately.

**Criterion C — Use of research to support answer**

**[6]**

Psychology is evidence based so it is expected that students will use their knowledge of research to support their argument. There is no prescription as to which or how many pieces of research are appropriate for their response. As such it becomes important that the research selected is **relevant** and useful in **supporting** the response. One piece of research that makes the points relevant to the answer is better than several pieces that repeat the same point over and over.

Marks	Level descriptor
0	Does not reach the standard described by the descriptors below.
1 – 2	Limited relevant psychological research is used in the response. Research selected serves to repeat points already made.
3 – 4	Relevant psychological research is used in support of the response and is partly explained. Research selected partially develops the argument.
5 – 6	Relevant psychological research is used in support of the response and is thoroughly explained. Research selected is effectively used to develop the argument.

**Criterion D — Critical thinking**

**[6]**

This criterion credits students who demonstrate an inquiring and reflective attitude to their understanding of psychology. There are a number of areas where students may demonstrate critical thinking about the knowledge and understanding used in their responses and the research used to support that knowledge and understanding. The areas of critical thinking are:

- research design and methodologies
- triangulation
- assumptions and biases
- contradictory evidence or alternative theories or explanations
- areas of uncertainty.

These areas are not hierarchical and not all areas will be relevant in a response. In addition, students could demonstrate a very limited critique of methodologies, for example, and a well-developed evaluation of areas of uncertainty in the same response. As a result a holistic judgement of their achievement in this criterion should be made when awarding marks.

<b>Marks</b>	<b>Level descriptor</b>
<b>0</b>	Does not reach the standard described by the descriptors below.
<b>1 – 2</b>	There is limited critical thinking and the response is mainly descriptive. Evaluation or discussion, if present, is superficial.
<b>3 – 4</b>	The response contains critical thinking, but lacks development. Evaluation or discussion of most relevant areas is attempted but is not developed.
<b>5 – 6</b>	The response consistently demonstrates well-developed critical thinking. Evaluation or discussion of relevant areas is consistently well developed.

**Criterion E — Clarity and organization**

**[2]**

This criterion credits students for presenting their response in a clear and organized manner. A good response would require no re-reading to understand the points made or the train of thought underpinning the argument.

<b>Marks</b>	<b>Level descriptor</b>
<b>0</b>	Does not reach the standard described by the descriptors below.
<b>1</b>	The answer demonstrates some organization and clarity, but this is not sustained throughout the response.
<b>2</b>	The answer demonstrates organization and clarity throughout the response.

## Abnormal psychology

1. Discuss validity **and/or** reliability of diagnosis.

[22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “discuss” requires candidates to offer a considered review that addresses various aspects of validity and/or reliability of diagnosis.

Relevant classification systems in the discussion of validity and reliability of diagnosis include, but are not limited to:

- Diagnostic Statistical Manual (DSM)
- Chinese Classification of Mental Disorders (CCMD)
- International Classification of Diseases (ICD).

Examples of research that could be used include, but are not limited to:

- Nicholls *et al.*'s (2000) studies of inter-rater reliability
- Seeman's (2007) literature review on the reliability of diagnosis
- Wakefield *et al.*'s (2007) study on the validity of diagnosis
- Silverman *et al.*'s (2001) study on test-retest of anxiety symptoms and diagnosis
- Rosenhan's studies of diagnostic validity.

Discussion may include, but is not limited to:

- methodological difficulties of conducting research on validity and/or reliability of diagnosis
- cultural, gender and/or ethical considerations related to research into validity and/or reliability of diagnosis
- biases related to diagnosis
- how the findings of the research have been interpreted and applied
- implications of the findings.

2. Evaluate **one or more** explanations for **one** psychological disorder.

[22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “evaluate” requires the candidate to make an appraisal by weighing up the strengths and limitations of one or more explanations for one psychological disorder. Although a discussion of both strengths and limitations is required, it does not have to be evenly balanced to gain high marks.

The disorder chosen is likely to come from the list in the guide:

- anxiety disorders
- depressive disorders
- obsessive compulsive disorders
- trauma and stress related disorders
- eating disorders.

Explanations for psychological disorders may include, but are not limited to:

- Biological explanations, such as neurological/neurochemical explanations for depression, the role of genes, or the role of brain abnormalities
- Cognitive explanations, such as Beck’s theory of depression
- Sociocultural explanations, such as Brown and Harris’s social vulnerability model.

Relevant studies may include, but are not limited to:

- Brown and Harris’s (1978) study on vulnerability to depression
- Caspi *et al.*’s (2003) study on genes and depression
- Gilbertson *et al.*’s (2002) study on the hippocampus and PTSD in veterans
- Hitchcock *et al.*’s (2015) study on cognitive appraisal in post-traumatic stress.

Evaluation of the selected research may include, but is not limited to:

- methodological and ethical considerations related to research into psychological disorders
- the accuracy and clarity of the concepts
- cultural and gender considerations
- supporting and/or contradictory findings
- contrasting explanations
- the productivity of the explanation in generating psychological research
- implications of findings
- the applications of the empirical findings.

If the candidate addresses only strengths or only limitations, the response should be awarded up to a maximum of **[3]** for criterion D: critical thinking. All remaining criteria should be awarded marks according to the best fit approach.

3. Evaluate **one or more** studies related to the treatment of **one or more** psychological disorders.

[22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “evaluate” requires the candidate to make an appraisal by weighing up the strengths and limitations of one or more studies related to the treatment of one or more psychological disorders. The focus of the evaluation should be upon the study/studies, not the treatment of psychological disorders. Although a discussion of both strengths and limitations is required, it does not have to be evenly balanced to gain high marks.

The disorder chosen is likely to come from the list in the guide:

- anxiety disorders
- depressive disorders
- obsessive compulsive disorders
- trauma and stress related disorders
- eating disorders.

Relevant studies may include, but are not limited to:

- Rossello and Bernal's (1999) study adapting cognitive behavioural therapy (CBT) and interpersonal psychotherapy (IPT) for Puerto Rican adolescents
- Mason and Hargreaves' (2001) qualitative interviews regarding effectiveness of mindfulness-based cognitive therapy (MBCT)
- McLay *et al.*'s (2011) assessment of the effectiveness of virtual reality exposure therapy (VRET) for post-traumatic stress disorder
- Kuyken *et al.*'s (2008) randomized control trial of MBCT and anti-depressive medication
- Caspi *et al.*'s (2003) study on treatment of depression
- Luty *et al.*'s (2007) randomized control trial of IPT and CBT
- Elkin *et al.*'s (1989) controlled outcome study on treatment of depression.

If the candidate provides studies on causes of disorder (rather than treatment of disorder) the response needs to make a clear link between the underlying cause and how it can be approached in treatment for the responses to gain credit.

Evaluation of the selected research may include, but is not limited to:

- methodological and ethical considerations
- cultural and gender considerations
- supporting and/or contradictory findings
- how the findings have been interpreted and applied.

If the candidate addresses only strengths or only limitations, the response should be awarded up to a maximum of **[3]** for criterion D: critical thinking. All remaining criteria should be awarded marks according to the best fit approach.

In questions that ask for evaluation of studies, marks awarded for criterion B should refer to definitions of terms and concepts. Overall this could include some knowledge of topic but more specifically knowledge and understanding related to research methods and ethics of chosen studies.

Marks awarded for criterion C assess the quality of the description of as study/studies and assess how well the student linked the findings of the study to the question – this does not need to be very sophisticated or long for these questions but still the aim or the conclusion should be linked to the topic of the specific question.

Criterion D assesses how well the student is explaining strengths and limitations of the study/studies.



## Developmental psychology

4. To what extent do sociocultural factors influence the development of identity? **[22]**

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term "to what extent" requires candidates to consider the contribution of sociocultural factors in the development of identity. It is appropriate and useful for candidates to address the influence of biological and cognitive factors in the development of identity in order to respond to the command term "to what extent".

Sociocultural factors influencing identity development may include, but are not limited to:

- family influences on identity development
- the role of culture in identity development
- the ethnic aspect of identity development
- gender and identity development
- social class and identity development
- social identity and identity development.

Research studies may include, but are not limited to:

- Marcia (1980) family influences on identity development in adolescence
- Erikson's (1968) research on culture, race, ethnicity and identity
- Phinney's (1989) study on ethnic identities of minority groups
- Gilligan (1990) study on gender and identity development
- Tajfel and Turner (1979) research on social identity and identity development
- Gee and Crawford, (1998) research on language, social class and identity

Candidates may address a small number of sociocultural factors influencing identity development in order to demonstrate depth of knowledge, or may address a larger number of sociocultural factors influencing identity development in order to demonstrate breadth of knowledge. Both approaches are equally acceptable.

5. Evaluate **one or more** theories of cognitive development.

[22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “evaluate” requires candidates to make an appraisal by weighing up the strengths and limitations of one or more theories of cognitive development. Although a discussion of both strengths and limitations is required, it does not have to be evenly balanced to gain high marks.

Theories may include, but are not limited to:

- Piaget's theory of cognitive development
- Vygotsky's theory of sociocultural cognition
- Kohlberg's theory of moral development
- Bruner's theory suggesting that thinking is the result of cognitive development
- the information-processing approach to cognitive development
- neurobiological explanations of cognitive development.

Research studies may include, but are not limited to:

- Piaget and Inhelder's (1956) three mountain study
- Bower and Wishart's (1977) study on object permanence
- Samuel and Bryant's (1984) study on conservation experiment
- Chi's (1978) study on processing skills
- Waber's (1987); Giedd's (2004) MRI studies on normal brain development
- Saxe *et al.*'s (1987) study on the zone of proximal development
- Wood *et al.*'s (1976) study on the role of tutoring in problem solving.

Evaluation may include, but is not limited to:

- methodological and ethical considerations related to the research into cognitive development
- stages versus continuous process
- how the findings of research have been interpreted
- assumptions and biases
- areas of uncertainty
- supporting and/or contradictory evidence
- alternative theories/explanations
- the accuracy and clarity of the concepts
- practical applications.

If the candidate addresses only strengths or only limitations, the response should be awarded up to a maximum of **[3]** for criterion D: critical thinking. All remaining criteria should be awarded marks according to the best fit approach.

6. Discuss the role of peers **and/or** play in cognitive development **and/or** social development. [22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term "discuss" requires candidates to offer a considered review of the role of peers and/or play in cognitive and/or social development.

Relevant topics may include, but are not limited to:

- the influence of different categories of play on cognitive and/or social development
- the therapeutic value of play
- Piaget's and Vygotsky's theories related to play and cognitive development
- the link between cognitive development and peer relationships
- the link between peer relationships and social comparison
- cultural differences in peer relationships

Studies may include, but are not limited to:

- Hughes' (1999) study on learning social skills through role play
- Russ's (2004) study of a child's capacity for cognitive flexibility and creativity developed by role play
- Todd *et al.*'s (2016); Fagot's (1985) studies on gender-specific toys
- Bradbard *et al.*'s (1986) study on the influence of sex stereotypes on children's exploration and memory
- Albert *et al.*'s (2013) study on peer influences in adolescent decision-making
- Newcomb and Bentler's (1988) study showing how positive relationships are important in reducing adolescent's drug use
- Kupersmidt and Coie's (1990) studies on peer rejection as predictor of externalizing problems in adolescence.

Discussion may include, but is not limited to:

- methodological and ethical considerations related to the research into the role of peers and play in cognitive and/or social development
- how the findings of research have been interpreted and applied (eg designing physical education courses for different ages of children)
- implications of the findings
- assumptions and biases
- areas of uncertainty
- supporting and/or contradictory evidence
- alternative explanations addressing cognitive and/or social development.

Candidates may discuss one aspect of the role of peers and/or play in cognitive and/or social development in order to demonstrate depth of knowledge, or may discuss a larger number of aspects of the role of peers and/or play in cognitive and/or social development in order to demonstrate breadth of knowledge. Both approaches are equally acceptable.

## Health psychology

### 7. Evaluate **one or more** studies related to health promotion. **[22]**

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “evaluate” requires candidates to make an appraisal of one or more studies related to health promotion by weighing up strengths and limitations of the studies. The focus of the evaluation should be upon the study/studies and not on health promotion in general. Although both strengths and limitations should be addressed, the discussion does not have to be evenly balanced to gain high marks.

Relevant studies related to health promotion may include, but are not limited to:

- Rosenstock *et al.*'s (1988) study related to the Health Belief Model
- Prochaska and Di Clemente's (1983) processes of change study related to the Transtheoretical Model
- Marlatt and Gordon's (1985) study related to the Relapse-Prevention Model
- Weinstein's (1987) study on unrealistic optimism hindering health promotion.

Evaluation of the selected studies may include, but is not limited to:

- methodological and ethical considerations
- cultural and gender considerations
- supporting and/or contradictory findings
- the applications of the empirical findings
- how the findings of research have been interpreted
- implications of the findings.

If the candidate addresses only strengths or only limitations, the response should be awarded up to a maximum of **[3]** for criterion D: critical thinking. All remaining criteria should be awarded marks according to the best fit approach.

In questions that ask for evaluation of studies, marks awarded for criterion B should refer to definitions of terms and concepts. Overall this could include some knowledge of topic but more specifically knowledge and understanding related to research methods and ethics of chosen studies.

Marks awarded for criterion C assess the quality of the description of as study/studies and assess how well the student linked the findings of the study to the question – this does not need to be very sophisticated or long for these questions but still the aim or the conclusion should be linked to the topic of the specific question.

Criterion D assesses how well the student is explaining strengths and limitations of the study/studies.

8. Discuss how risk **and/or** protective factors affect health.

[22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “discuss” requires candidates to offer a considered review of how risk and/or protective factors affect health. Candidates may choose to discuss health in general or might refer to a specific health problem. Either approach is acceptable.

Aspects of health likely to be addressed are:

- stress
- addiction
- obesity
- chronic pain
- sexual health.

Risk/protective factors may include, but are not limited to:

- socioeconomic factors
- level of peer support
- family factors
- health beliefs
- resiliency traits.

Relevant studies may include, but are not limited to:

- Unger and Chen’s (1999) study in risk and protective factors related to adolescent smoking initiation
- Haines, Neumark-Sztainer, Wall, and Story’s (2012) study of risk and protective factors of adolescent weight gain
- Yi, Poudel, and Yasouka’s (2010) study of the role of risk and protective factors in risky sexual behaviours in Cambodian high school students.

Discussion may include, but is not limited to:

- methodological and ethical considerations related to the research into risk and/or protective factors of health
- how the findings of research have been interpreted and applied
- theoretical issues
- assumptions and biases
- areas of uncertainty
- supporting and/or contradictory evidence
- cultural and gender considerations.

Candidates may discuss a small number of risk/protective factors in order to demonstrate depth of knowledge, or may discuss a larger number of risk/protective factors in order to demonstrate breadth of knowledge. Both approaches are equally acceptable.

9. Evaluate **one or more** explanations of health problems.

[22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “evaluate” requires candidates to make an appraisal by weighing up strengths and limitations of one or more explanations of health problems. Although both strengths and limitations should be addressed, the discussion does not have to be evenly balanced to gain high marks.

Candidates may evaluate one or more explanations of specific health problems (for example, stress, addiction, obesity, chronic pain, sexual health), or evaluate one or more explanations of health problems in general. Both approaches are equally acceptable.

Explanations of health problems may include, but are not limited to:

- brain's reward pathway explanation of addiction
- genetic vulnerability to addiction
- theory of planned behavior addressing the role of decision making in addiction
- sociocultural explanations of obesity
- General Adaptation Syndrome model as explanation of stress

Relevant research may include, but is not limited to:

- Newton and De La Graza (2009) study in theory of addiction
- Hammer, Dingle, Ostergren and Partridge (2013) study challenging the biomedical model of addiction
- Reed *et al.*'s (1999) study of pessimism within AIDS patients
- Kamen and Seligman's (1987) study of attributional style and health level
- Stunkard *et al.*'s (1990) study of genetic factors in obesity.

Evaluation may include, but is not limited to:

- methodological and ethical considerations in research related to investigating the explanations
- cultural factors and gender considerations in research related to investigating the explanations
- supporting or contradictory empirical evidence
- alternative explanations
- accuracy and clarity of the concepts
- the application of the empirical findings
- the productivity of the explanation in generating psychological research.

If the candidate addresses only strengths or only limitations, the response should be awarded up to a maximum of **[3]** marks for criterion D: critical thinking. All remaining criteria should be awarded marks according to the best fit approach.

## Psychology of human relationships

10. Discuss the formation of personal relationships.

[22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “discuss” requires candidates to offer a considered review of the formation of personal relationships.

Candidates may refer to issues including, but not limited to:

- explanations of formation of personal relationships (learning, cognitive, evolutionary, economic, cultural)
- studies on formation of personal relationships
- research methods investigating the formation of personal relationship
- factors influencing the formation of personal relationship
- gender/cultural differences related to formation of personal relationships
- attraction and/or liking can also be addressed as long they are tied to formation of relationships.

Relevant studies may include, but are not limited to:

- Flora and Segrin’s (2003) study on the perception of the relationship in married and dating couples
- Wedekind’s (1995) experiment on mate preference based on genetic makeup
- Fisher *et al.*’s (2005) fMRI investigation into neural mechanisms of mate choice
- Johnston *et al.*’s (2001) experiments investigating the importance of a woman’s hormonal state on the attractiveness of men’s faces
- Buss *et al.*’s (1989) cross-cultural study on factors in attraction
- Morry’s (2005) investigation into the attraction-similarity hypothesis
- Gupta and Singh’s (1982) study using interviews on arranged marriages in Indian couples.

Discussion may include, but is not limited to:

- methodological and ethical considerations related to the research into the formation of personal relationships
- cultural and gender considerations
- how the findings of research have been interpreted and applied
- implications of the findings
- assumptions and biases
- areas of uncertainty
- supporting and/or contradictory evidence
- alternative explanations.

11. Evaluate **one or more** studies investigating origins of conflict **and/or** conflict resolution. [22]

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “evaluate” requires candidates to make an appraisal of one or more studies investigating origins of conflict and/or conflict resolution by weighing up the strengths and limitations. The focus of the evaluation should be upon the study/studies and not on the origin of conflict and/or conflict resolution. Although a discussion of both strengths and limitations is required, it does not have to be evenly balanced to gain high marks.

Topics investigating origins of conflict and/or conflict resolution may include, but are not limited to:

- Realistic group conflict theory
- Social identity theory
- Group polarization
- Intergroup contact theory
- Social cognitive theory and Sabido method
- Jigsaw classroom example of cooperative learning

Relevant studies may include, but are not limited to:

- Sherif *et al.*'s (1961) field experiment on competition and conflict resolution between groups
- Chambers and De Dreu's (2014) study on conflict and negotiation
- Sternberg and Dobson's (1987) study on resolution of interpersonal conflicts
- Sternberg and Soriano's (1984) study on styles of conflict resolution.

Evaluation of the selected studies may include, but is not limited to:

- methodological and ethical considerations
- cultural and gender considerations
- supporting and/or contradictory findings
- the applications of the empirical findings
- how the findings of research have been interpreted
- implications of the findings.

If the candidate addresses only strengths or only limitations, the response should be awarded up to a maximum of **[3]** for criterion D: critical thinking. All remaining criteria should be awarded marks according to the best fit approach.

In questions that ask for evaluation of studies, marks awarded for criterion B should refer to definitions of terms and concepts. Overall this could include some knowledge of topic but more specifically knowledge and understanding related to research methods and ethics of chosen studies.

Marks awarded for criterion C assess the quality of the description of as study/studies and assess how well the student linked the findings of the study to the question – this does not need to be very sophisticated or long for these questions but still the aim or the conclusion should be linked to the topic of the specific question.

Criterion D assesses how well the student is explaining strengths and limitations of the study/studies.



**12. Evaluate one or more studies investigating social responsibility. [22]**

*Refer to the paper 2 assessment criteria when awarding marks.*

The command term “evaluate” requires candidates to make an appraisal by weighing up the strengths and limitations of one or more studies investigating social responsibility. The focus of the evaluation should be upon the study/studies and not on social responsibility. Although a discussion of both strengths and limitations is required, it does not have to be evenly balanced to gain high marks.

The topic of social responsibility may include, but is not limited to:

- prosocial behavior
- altruistic behavior
- bystanderism
- strategies of promoting prosocial behaviour.

Relevant studies may include, but are not limited to:

- Whiting & Whiting (1975) study comparing prosocial behaviour in six cultures
- Miller *et al.*'s (1990) study on cultural norms and moral values related to social responsibility
- DeWall *et al.*'s (2008) study investigating differences in helping behaviour towards family versus strangers and the roles of ego depletion and glucose.
- Burnstein *et al.*'s (1994) study on hypothetical helping behaviour towards different degrees of relatives.

Evaluation of the selected studies may include, but is not limited to:

- methodological and ethical considerations
- cultural and gender considerations
- supporting and/or contradictory findings
- the applications of the empirical findings
- how the findings of research have been interpreted
- implications of the findings.

If the candidate addresses only strengths or only limitations, the response should be awarded up to a maximum of [3] for criterion D: critical thinking. All remaining criteria should be awarded marks according to the best fit approach.

In questions that ask for evaluation of studies, marks awarded for criterion B should refer to definitions of terms and concepts. Overall this could include some knowledge of topic but more specifically knowledge and understanding related to research methods and ethics of chosen studies.

Marks awarded for criterion C assess the quality of the description of as study/studies and assess how well the student linked the findings of the study to the question – this does not need to be very sophisticated or long for these questions but still the aim or the conclusion should be linked to the topic of the specific question.

Criterion D assesses how well the student is explaining strengths and limitations of the study/studies.

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