Cambridge International AS & A Level

Cambridge Assessment International Education
Cambridge International Advanced Subsidiary and Advanced Level

PSYCHOLOGY **9990/42**

Paper 4 Specialist Options: Application **March 2019**

MARK SCHEME

Maximum Mark: 60

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the March 2019 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of **25** printed pages.

© UCLES 2019

Cambridge Assessment International Education

Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

© UCLES 2019

9990/4 March 2019 42

Each option has three questions:

Section A: (stimulus) Answer two questions from choice of four: (a)=2, (b)=4, (c)=4 and (d)=5 [15 total]
Section A: candidates answer two questions from a choice of four, based on the two specialist options they have studied. Each question is based on stimulus material and is divided into four parts. There are
2 marks for part **(a)**, 4 marks for part **(b)**, 4 marks for part **(c)** and 5 marks for part **(d)**.

Section B: (design) Answer one question from choice of four: (a) = 10 marks, (b) = 8 marks [18 total]
Section B: candidates answer one design-based question from a choice of four, based on either of the two specialist options they have studied. The question is divided into two parts. There are 10 marks for part **(a)** and 8 marks for part **(b)**.

Section C: (e) Answer one question from choice of four 12 marks. TOTAL MARKS = 60
Section C: candidates answer one essay question from a choice of four, based on either of the two specialist options they have studied. There are 12 marks for this question.

Questions will require candidates to consider approaches, research methods and issues and debates. The questions will be based on two topic areas (a, b, c, d, e) covered within the chosen specialist option. The two topic areas for each specialist option will be different to the two topic areas assessed in Paper 3.

In order to achieve the same standard across all questions in a Section, the same generic mark schemes are used for each option. These mark schemes are as follows.

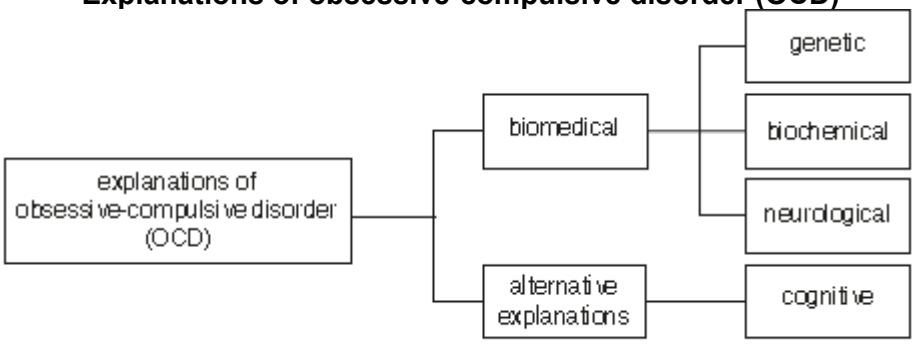
Section A: Stimulus (Generic response descriptor)		
(a)	0–2	**1 mark** for basic answer e.g. identification. **1 mark** for elaboration/example.
(b)	0–4	Questions have one or two requirements **If 1 mark for one aspect: [1 mark max]** 1 mark for identification or statement. **If 2 marks for two aspects: [2 + 2 marks] 1 mark** basic answer. **2 marks** elaboration ×2. **If 4 marks for one aspect: [4 marks] 1–2 marks** basic answer. **3–4 marks** detailed answer/elaboration. Partial answers score half marks (i.e. 4 to 2 or 2 to 1)
(c)	0–4	
(d)	0–5	Question requires **discussion**. Question always **plural** of each argument. Question always requires conclusion. **1 mark** for each for/against argument (however detailed) up to 4 max. **1 mark** for conclusion. **Note:** If three (or more) arguments for one side, best two credited. If one side only, max 2 marks.
0	0	No response worthy of credit.

Section C: Essay/Evaluate (Generic response descriptor)		
Level	Marks	Level Descriptor
Note: Questions are always worded in the same way: 'to what extent do you agree with this statement? Use examples of research you have studied to support your answer'. However, the words 'research' must be taken in the widest sense: (i) different examples can be used from the same piece of research; (ii) examples from different pieces of research; (iii) examples from methodology, such as a specific method or technique; (iv) examples from methodological issues such as ethics, generalisations, quantitative/qualitative data; psychological versus physiological, etc. (v) examples of debates and issues such as reductionism & holism; individual & situational, etc.		
4	10–12	• **Both sides** of the argument are considered and are relevant to the question. • **Appropriate examples** are included which fully support both sides. • Discussion is **detailed** with **good understanding** and clear expression. • A conclusion is drawn with appropriate justification.
3	7–9	• **Both sides** of the argument are considered and are relevant to the question. They may be **imbalanced** in terms of quality or quantity. • **Some examples** are included, are appropriate and often support both sides. • The answer shows good discussion with reasonable understanding. • A basic conclusion is drawn with little or no justification
2	4–6	• Reasons are limited to **one side** of the argument. • **Limited** reference to **examples**, or **lack of detail**. • The answer shows **some understanding**. • There is no conclusion.
1	1–3	• Anecdotal discussion, **brief detail**, minimal relevance. Very **limited range**. • Discussion may be **inaccurate** or incomplete. • May evaluate topic area studies, making only indirect reference to the question.
0	0	• No response worthy of credit.

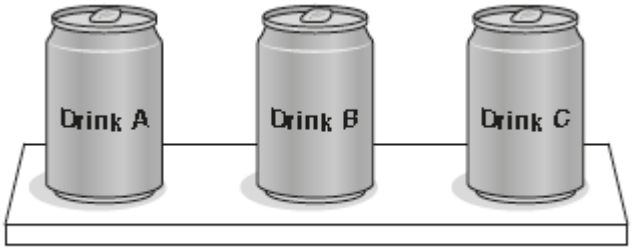
Section B: Design a study question part (a) (Generic response descriptor)		
Level	Marks	Level Descriptor
4	9–10	• The design is appropriate to the named investigation and is based on thorough psychological knowledge. • The design is accurate, coherent and detailed, and it tests the proposed investigation competently. • Four or five design features are included. The features are clearly applied to the design throughout the answer and the candidate clearly understands the main features involved in designing an investigation. • The response has proposed an appropriate design, has applied a range of relevant methodological design features with competence and shown clear understanding.
3	7–8	• The design is appropriate to the named investigation and is based on good psychological knowledge. • The design is accurate, coherent and detailed, and it tests the propose investigation competently. • Two or three design features are included. The features are often applied to the design and the candidate shows good understanding in places. • The response has proposed an appropriate design, has applied some relevant methodological design features and has shown good understanding.
2	4–6	• The design is mostly appropriate to the named investigation and is based on psychological knowledge. • The design is mostly accurate, coherent and detailed in places and it tests the proposed investigation. • Design features are limited in their understanding.
1	1–3	• The design may not be appropriate to the named investigation and use of terminology is sparse or absent. Basic psychological understanding is shown. • The design lacks coherence and is limited in understanding. • One or two appropriate design features are identified but incorrectly applied. The response lacks detail.
0	0	• No response worthy of credit.

Section B: Explain a study question part (b) (Generic response descriptor)		
Level	Marks	Level Descriptor
3	6–8	• Quality and depth of explanation is thorough. • Description of knowledge is accurate, coherent and detailed. • Use of terms is accurate and use of psychological terminology is comprehensive. • Understanding of methodology (such as elaboration, use of example, quality of description) is very good. • The design is effectively explained in relation to the topic area. • There is a balance of methodology and topic area/relevant study knowledge.
2	4–5	• Quality of explanation and depth of explanation is competent. • Description of knowledge is mainly accurate, coherent and reasonably detailed. • Use of terms is mainly accurate and use of psychological terminology is competent. • Understanding of methodology (such as elaboration, use of example, quality of description) is good. • The design is adequately explained in relation to the topic area. • There is an imbalance of methodology and topic area/relevant study knowledge.
1	1–3	• Quality of explanation and depth of explanation is basic. • Description of knowledge is often accurate, generally coherent, but lacks detail. • Use of terms is basic and use of psychological terminology is adequate. • Understanding of methodology (such as elaboration, use of example, quality of description) is limited. • The design is poorly explained in relation to the topic area. • There is an imbalance of methodology and topic area/relevant study knowledge.
0	0	• No response worthy of credit

© UCLES 2019

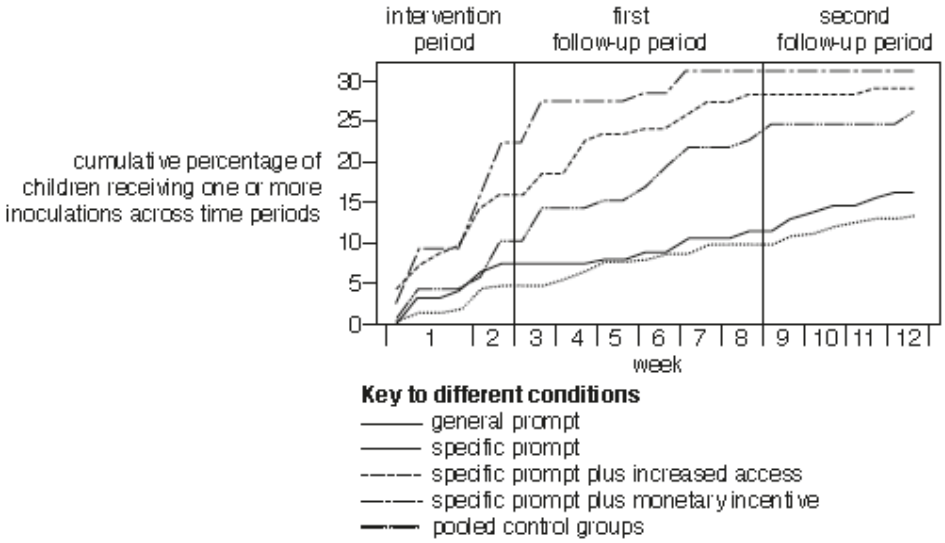
Question	Answer	Marks
	Section A: Stimulus question Psychology and abnormality	
1	**Explanations of obsessive-compulsive disorder (OCD)**  **Fig. 1.1**	
1(a)	**Outline <u>one</u> neurological explanation of obsessive-compulsive disorder (OCD).** **Most likely answer** (other appropriate responses to be credited): • Neurological – explanations involving abnormalities of brain structure and function such as abnormalities of basal ganglia and related regions. These regions convert sensory input into thoughts and behaviours, and if these regions do not regulate activity (e.g. they become over-stimulated) it could explain recurring thoughts and behaviour. **0 marks** for any other explanation such as a biochemical explanation which involves hormones and neurotransmitters such as oxytocin, or genetic explanation. **Marks: 1 mark** basic answer (simple description), **2 marks** detailed answer/elaboration**.**	**2**
1(b)	**Outline <u>one</u> genetic explanation of OCD and <u>one</u> bio*chemical* explanation of OCD.** **Most likely answer** (other appropriate responses to be credited): • **genetic**: genes cause OCD. Mattheisen et al. (2015) found genes PTPRD and SLITRK3 were associated with OCD. Taj et al. (2013) found gene DRD4 was related to uptake of dopamine. • **biochemical**: Altemus et al. (1993) suggest that OCD is caused by low serotonin levels. Humble et al (2011) found high levels of oxytocin positively correlated with early onset OCD. **Marks:** 1 mark basic answer (simple description of what it is), 2 marks detailed answer/elaboration or use of example ×2. Names of studies not required for max marks; studies are examples of what might be quoted.	**4**

Question	Answer	Marks
1(c)	**Suggest <u>two</u> ways in which <u>one</u> bio*medical* explanation differs from cognitive explanations for OCD.** **Most likely answer (other appropriate responses to be credited):** • **Biomedical** assumes causes are biological (genetic, neurological, chemical) The **cognitive** explanation assumes thoughts cause OCD • **Biomedical** assumes drug treatments are best way to treat OCD. The cognitive explanation would focus on cognitive-behaviour therapy to target obsessions, compulsions or both • Genetic/neurological is nature, cognitive is nurture • Genetic/neurological is biological determinism, cognitive is, perhaps, free-will **Marks:** 1 mark basic answer, 2 marks detailed answer/elaboration ×2.	**4**
1(d)	**Discuss the strengths and weaknesses of the bio*medical* explanation of OCD. You should include a conclusion in your answer.** **Most likely answer** (other appropriate responses to be credited): **Strengths:** • Genetics/chemicals can be studied objectively = scientific data. • Studies can be done experimentally, with cause and effect, and can be replicated. • Studies of biology are more likely to be generalised because all people have the same biological functions **Weaknesses:** • Biomedical explanations are reductionist, reducing what could be a complex cognitive phenomenon to nothing more than 'chemicals'. • Biological explanations cannot be generalised because although people have the same biological functioning, there are individual differences in the amount of a particular chemical, such as too much or too little of a chemical causing an imbalance. • Biomedical explanations are reductionist because they don't consider the *interaction* between chemicals etc. and a person's interactions with other people, their learning, etc. **Conclusion**: any appropriate conclusion drawn from the discussion that has been presented. 1 mark if appropriate. **Marks:** Question requires **discussion**. Question always **plural** of each argument. Question always requires conclusion. • **1 mark** for each strength/weakness (however detailed) *and related to the question* up to 4 max. • **1 mark** for two strengths unrelated to the question. **1 mark** for two weaknesses unrelated to the question. • **1 mark** for conclusion. **Note:** If three (or more) arguments for one side, best two credited. If strength or weakness only, max 2 marks.	**5**

Question	Answer	Marks
2	**The study by Atalay et al. (2012) used several different ways to investigate which product on a shelf in a shop customers were more likely to choose.**  Fig. 2.1	
2(a)	**Explain what is meant by the term 'planogram'.** **Most likely answer** (other appropriate responses to be credited): • A visual diagram or drawing that provides detail of where every product in a retail store should be placed. • It can be specific (items on one shelf) in a specific aisle (or section) or be general (the whole store). • It has two functions: product placement and improved sales. **Marks: 1 mark** basic answer (simple description), **2 marks** detailed answer/elaboration**.**	**2**
2(b)	**Outline <u>two</u> findings from this study.** Quotes from study: • *a centrally located brand within a product category is chosen more often even when it is not placed in the centre of the shelf or the visual field.* • *horizontal centrality on choice was found across three different studies and product categories (vitamins, meal replacement bars, and energy drinks).* • *brands in the horizontal centre receive more visual attention.* • *There is an initial central fixation bias, a tendency to look first at the central option, and a central gaze cascade effect, progressively increasing attention focused on the central option right prior to decision.* • *A product is more likely to sell if it is placed centrally on a shelf.* **Marks:** 1 mark basic answer (simple description of finding), 2 marks detailed answer/elaboration or use of example ×2.	**4**

Question	Answer	Marks
2(c)	**Suggest how <u>each</u> of these findings is useful.** **Most likely answer** (other appropriate responses to be credited): • Useful to seller: A product is more likely to sell if it is placed centrally on a shelf. • Useful to seller: 'centrality' applies to different products; possibly all products • Useful to seller: Products on promotion can be specifically placed to sell (maybe use multiple-pricing, etc.) • Useful to seller: Products which provide higher profit margins for the retailer/seller can be placed in a central position. • Useful methodology: eye tracking software is a useful tool in consumer research. **Marks:** 1 mark basic answer (simple use), 2 marks detailed answer/elaboration, or use of example ×2.	**4**

Question	Answer	Marks
2(d)	**Discuss the advantages and disadvantages of using eye tracking techniques to gather data on consumer behaviour. You should include a conclusion in your answer.** **Most likely answer** (other appropriate responses to be credited, such as eye movement patterns): **Advantages** • Eye tracking is scientific equipment which is reliable. • Data recorded is objective: where the person looks is clear and unambiguous. • Data is quantitative and so comparisons can be made between participants and between studies. • It provides immediate feedback. • It is easy to use requiring no training. **Disadvantages** • Participants can choose to look in whatever direction they wish – they know their eve movements are being tracked. • There may be cultural differences in where people are socialised to look. • Data is where the participant has looked but it does not provide an explanation of why that person has looked in a particular direction. • Eye tracking is reductionist – product purchase isn't just based on vision; some products smell and touch may be important. • It cannot be used with every participant, people with contact lenses or have long eye lashes • Eye movement may be subconscious and difficult to control at all times. Data may not be accurate **Conclusion**: any appropriate conclusion drawn from the discussion that has been presented. 1 mark if appropriate. **Marks:** Question requires **discussion**. Question always **plural** of each argument. Question always requires conclusion. • **1 mark** for each strength/weakness (however detailed) *and related to the question* up to 4 max. • **1 mark** for two strengths unrelated to the question. **1 mark** for two weaknesses unrelated to the question. • **1 mark** for conclusion. **Note:** If three (or more) arguments for one side, best two credited. If strength or weakness only, max 2 marks.	**5**

Question	Answer	Marks
3	**The graph below is from the study by Yokley and Glenwick (1984) on the immunisation of pre-school children.**  **Fig. 3.1**	
3(a)(i)	**Identify the condition in Fig. 3.1 which showed the <u>most</u> improvement in inoculation rate.** **Marks: 1 mark** for: Most effective was the 'specific prompt plus monetary incentive'.	**1**
3(a)(ii)	**Identify the condition in Fig. 3.1 which showed the <u>least</u> improvement in inoculation rate.** **Marks: 1 mark** for: Least effective was the 'pooled control groups'.	**1**
3(b)	**Give <u>two</u> differences between the information given to the 'general prompt' group and the 'specific prompt plus monetary incentive' group.** **Most likely answer** (other appropriate responses to be credited): • MIG: monetary incentive ('$175.00 in cash prizes'); GP: no monetary incentive. • MIG: details of specific immunisations needed; GP: standardisation immunisation schedule but not inoculations needed • MIG named child; GP: no named child. • 'open for longer hours' is incorrect as this applied to all conditions. **Marks: 2** marks for <u>difference</u> (i.e. both sides must be stated for full marks) 1 mark if both sides are not stated or merely described. ×2	**4**

Question	Answer	Marks
3(c)(i)	**Identify the <u>two</u> control groups in this study.** • Contact control group (n=189) telephone contact but no mailing, no prompt information. • No-contact control group (n=191) no contact at all. **Marks:** 1 mark for identification of each control group. **Note: 0 marks** for 'pooled control groups'. This is repeating the words in the table (stem) showing no knowledge of either of these groups.	**2**
3(c)(ii)	**Suggest why control groups were used in this study.** • To see if there is a difference between experimental and control groups (1 mark) • As above, but with elaboration – to test effectiveness of different strategies using non-contact group as a baseline when nothing is done by health authorities (2 marks). **Marks:** 1 mark basic answer (simple description of control group), 2 marks detailed answer/elaboration or use of example.	**2**
3(d)	**Discuss the advantages and disadvantages of providing information about health using postal (mailed) prompts. You should include a conclusion in your answer.** **Most likely answer** (other appropriate responses to be credited): **Advantages** • Information can describe briefly or in more detail; can provide information or induce fear. • People can read at their own leisure (in their own home), think about and then make decisions (without pressure from anyone) • Prompts about health have been shown to be more effective then no prompts **Disadvantages** • People may not receive the mailing or receive it but never read it; • people read the information but not act on it (or forget to act on it) • people may delay acting (appraisal delay etc re Safer) **Conclusion**: any appropriate conclusion drawn from the discussion that has been presented. 1 mark if appropriate. **Marks:** Question requires **discussion**. Question always **plural** of each argument. Question always requires conclusion. • **1 mark** for each strength/weakness (however detailed) *and related to the question* up to 4 max. • **1 mark** for two strengths unrelated to the question. **1 mark** for two weaknesses unrelated to the question. • **1 mark** for conclusion. **Note:** If three (or more) arguments for one side, best two credited. If strength or weakness only, max 2 marks.	**5**

Question	Answer	Marks
4	**'I really lack motivation.** **What I *need* is ERG: existence, relatedness and growth.'**	
4(a)	**Explain what is meant by a 'need theory of motivation'.** **Most likely answer** (other appropriate responses to be credited): A need is something that is necessary to live a healthy life. There are essential 'physical' needs for survival such as air, water, food and warmth. There are also 'subjective' needs (the concern here) such as the need to be 'social' and to self-actualise. These 'subjective' needs can vary from one culture to another. The syllabus lists three need theories (Maslow, Alderfer and McClelland) so candidates can use examples from any of these to support their answers if they wish. **Marks: 1 mark** basic answer (what a need is), **2 marks** detailed answer/ elaboration/example**.**	**2**
4(b)	**Suggest <u>one</u> similarity and <u>one</u> difference between the need theories of Maslow and Alderfer.** **Most likely answer** (other appropriate responses to be credited): Similarity: • both are need theories and are needs that must be satisfied. • both have similar needs, just different words (e.g. physiological and safety = ERG 'existence' needs). Differences: • Maslow has 5 (8) needs, ERG has three needs (elaboration = identification of one or more needs) • Maslow – person stays at a need until it is fulfilled; ERG – person may have more than one need at a time. • Maslow – person moves up the hierarchy; ERG – person may revert to accomplish an earlier need (frustration- regression). **Marks: 2** marks for <u>difference;</u> **2** marks for <u>similarity</u> (both sides must be stated for full marks) 1 mark if both sides are not stated or merely described.	**4**

Question	Answer	Marks
4(c)	**Outline <u>one</u> theory of motivation, other than a need theory.** **Most likely answer** (other appropriate responses to be credited): • **Cognitive/rational theories of motivation** view workers as rational, decision-making beings who cognitively assess (think about) the costs and benefits before acting. • **goal-setting theory** by Latham and Locke believe that people can be motivated by setting goals and when it is achieved a sense of achievement results. Goal-setting has five principles: Clarity, challenge, commitment, effectiveness and task complexity. • The **VIE** (or **expectancy**) **theory** (Vroom, 1964) believes that workers are rational and decision making is guided by potential costs (negative outcomes) and rewards (positive outcomes) M = E × I × V or motivation = expectancy × instrumentality × valence. • **Equity theory** (Adams) When people feel fairly treated they are more likely to be motivated; when they feel unfairly treated they are prone to feelings of disaffection and demotivation. Employees seek to maintain equity between the inputs that they bring to a job and the outcomes that they receive from it against the perceived inputs and outcomes of others. **Marks:** 1–2 marks basic answer, 3–4 marks elaboration/example. **Note: 0 marks** for intrinsic/extrinsic motivation which are not theory.	**4**

Question	Answer	Marks
4(d)	**Discuss the advantages and disadvantages of using self-reports to gather data on need theories of motivation. You should include a conclusion in your answer.** **Most likely answer** (other appropriate responses to be credited): Self-reports can include questionnaires and interviews. **Advantages** • Asking people directly means that participants are given the opportunity to express their feelings and explain their behaviour rather than the researcher trying to work out reasons for their behaviour from other methods • Relatively large numbers of participants can be done relatively easily. Questionnaires are easy to replicate. Same for telephone interviews. • Data can be qualitative, but may also be quantitative depending on type of question **Disadvantages** • Some participants may provide socially desirable responses; not give truthful answers; respond to demand characteristics. • Closed/fixed choice questions may force people into choosing answers that do not reflect their true opinion and therefore may lower the validity. • Researchers have to be careful about use of leading questions; it could affect the validity of the data collected. **Conclusion**: any appropriate conclusion drawn from the discussion that has been presented. 1 mark if appropriate. **Marks:** Question requires **discussion**. Question always **plural** of each argument. Question always requires conclusion. • **1 mark** for each strength/weakness (however detailed) *and related to the question* up to 4 max. • **1 mark** for two strengths unrelated to the question. **1 mark** for two weaknesses unrelated to the question. • **1 mark** for conclusion. **Note:** If three (or more) arguments for one side, best two credited. If strength or weakness only, max 2 marks.	**5**

Question	Answer	Marks
	Section B	
5(a)	**Design a study using a questionnaire to investigate the characteristics of hoarding behaviour.** **Marks:** use generic levels of response Design a study question part **(a)**. **Additional**: Candidates should design the study showing evidence of design features appropriate to the named method. The named method is: **questionnaire**. **Specific features**: **Questionnaires/Interviews**: type, setting, example questions. Scoring/rating scale, analysis of responses. **General features of research methodology**: sampling technique and sample, type of data, ethics, reliability, validity, data analysis.	**10**
5(b)	**Explain the psychological and methodological evidence on which your study is based.** **Marks:** use generic levels of response 'Design a study' question part **(b)**. Note: If **only** methodological or psychological explanation is provided max 5 marks Candidates are expected to explain the reasons for the suggested design in part **(a)**. Explanation should be both psychological and methodological. Psychological to include appropriate theory or research. **Additional:** candidates are expected to justify their decisions or evidence presented regarding the design made in answer to question part **(a)**. **Syllabus:** Characteristics of O-C and related disorders: types of and common obsessions, common compulsions, hoarding and body dysmorphic disorder. ***Psychological**:* Hoarding: (i) accumulation of things that have little or no value. (ii) difficulty in discarding or parting with possessions. Hoarded items: newspapers, magazines, paper and plastic bags, cardboard boxes, photographs, household supplies, etc. Also severe anxiety when attempting to discard items; difficulty categorising or organising possessions; indecision about what to keep or where to put things. Hoarding can also be a part of kleptomania, so this aspect is also legitimate. ***Methodological**:* explanation of method using general and specific features as above.	**8**

Question	Answer	Marks
6(a)	**Three decision-making strategies are compensatory, non-compensatory or partially compensatory.** **Design a study to investigate which decision-making strategies people apply when buying a new mobile (cell) phone.** **Marks:** use generic levels of response Design a study question part **(a)**. **Additional**: Candidates should design the study showing evidence of design features appropriate to the named method. The named method is: **any appropriate method**. **Specific features:** • **Experiments**: type, IV, DV, controls, experimental design. • **Observations**: type, setting, response categories, sampling frame, number of observers. • **Questionnaires/Interviews**: type, setting, example questions. Scoring/rating scale, analysis of responses. **General features of research methodology**: sampling technique and sample, type of data, ethics, reliability, validity, data analysis.	**10**
6(b)	**Explain the psychological and methodological evidence on which your study is based.** **Marks:** use generic levels of response 'Design a study' question part **(b)**. Note: If **only** methodological or psychological explanation is provided max 5 marks Candidates are expected to explain the reasons for the suggested design in part **(a)**. Explanation should be both psychological and methodological. Psychological to include appropriate theory or research. **Additional:** candidates are expected to justify their decisions or evidence presented regarding the design made in answer to question part **(a)**. **Syllabus:** strategies: compensatory, non-compensatory and partially compensatory ***Psychological***: Quote from study: *In **compensatory choice models**, the overall value (utility) of a brand is a weighted average of the brand's position on some set of attributes, where the weights measure attribute importances. Consumers make a rational choice and, select the brand with the highest overall utility.* ***Non-compensatory decision making** essentially shortcuts the compensatory process to make the decision making process easier. Consumers consider attributes sequentially and benefits on some attributes may not overbalance shortfalls on others. For example, Satisficing is a non-compensatory decision strategy in which we select the first adequate option, failing to explore or consider the entire set of options.* ***Methodological**:* explanation of method using general and specific features as above.	**8**

Question	Answer	Marks
7(a)	**Design a field experiment to investigate the effectiveness of a reward system to reduce the number of accidents in school science lessons.** **Marks:** use generic levels of response Design a study question part **(a)**. **Additional**: Candidates should design the study showing evidence of design features appropriate to the named method. The named method is: any appropriate method but must include **fear arousal campaign.** **Specific features: Experiments**: type, IV, DV, controls, experimental design. **General features of research methodology**: sampling technique and sample, type of data, ethics, reliability, validity, data analysis.	**10**
7(b)	**Explain the psychological and methodological evidence on which your study is based.** **Marks:** use generic levels of response 'Design a study' question part **(b)**. Note: If **only** methodological or psychological explanation is provided max 5 marks Candidates are expected to explain the reasons for the suggested design in part **(a)**. Explanation should be both psychological and methodological. Psychological to include appropriate theory or research. **Additional:** candidates are expected to justify their decisions or evidence presented regarding the design made in answer to question part **(a)**. **Syllabus:** health promo in schools, worksites and communities; worksites (Fox et al., 1987) ***Psychological**:* Fox et al. (1987) use a token economy system to reduce accidents in the workplace. Operant conditioning could also be used, with positive reinforcement being applied to increase safety behaviour. Note: the question states reward system, so positive punishment would be inappropriate. ***Methodological**:* explanation of method using general and specific features as above.	**8**

Question	Answer	Marks
8(a)	**One cognitive limitation/error in group decision-making is a 'sin of commission'.** **Design a study using observation to investigate whether a group of managers makes a 'sin of commission' when making a group decision about buying new computers.** **Marks:** use generic levels of response Design a study question part **(a)**. **Additional**: Candidates should design the study showing evidence of design features appropriate to the named method. The named method is: **observation**. **Specific features**: **Observations**: type, setting, response categories, sampling frame, number of observers. **General features of research methodology**: sampling technique and sample, type of data, ethics, reliability, validity, data analysis.	**10**
8(b)	**Explain the psychological and methodological evidence on which your study is based.** **Marks:** use generic levels of response 'Design a study' question part **(b)**. Note: If **only** methodological or psychological explanation is provided max 5 marks Candidates are expected to explain the reasons for the suggested design in part **(a)**. Explanation should be both psychological and methodological. Psychological to include appropriate theory or research. **Additional:** candidates are expected to justify their decisions or evidence presented regarding the design made in answer to question part **(a)**. **Syllabus:** cognitive limitations and errors (Forsyth, 2006) ***Psychological***: From study: *Sins of commission include the misuse, abuse and/or inappropriate use of information.* ***Belief perseverance*** *A group utilises information in their decision-making that has already been deemed inaccurate.* ***Sunk cost bias*** *A group remains committed to a given plan primarily due to the investment already made in that plan, regardless of how inefficient and/or ineffective it may have become.* ***Extra-evidentiary bias*** *A group choosing to use some information despite having been told it should be ignored.* ***Hindsight bias*** *Group members falsely over-estimate the accuracy of and/or the relevance of their past knowledge of a given outcome.* ***Methodological***: explanation of method using general and specific features as above.	**8**

Question	Answer	Marks
	Section C	
9	***'A case study of a person with schizophrenia will reveal more about the disorder than any other method.'*** **To what extent do you agree with this statement? Use examples of research you have studied to support your answer.** **Marks:** use generic levels of response in table C. **Syllabus:** definitions, types, examples and case studies of schizophrenia and psychotic disorders **Most likely** (any other appropriate responses should be credited): **For:** • A case study allows a focus on an individual in depth, perhaps over time and using a range of different methods. • Far more can be known about the specific problems, and how it affects the life of that person. • A range of tests, techniques and methods can be used as appropriate. **Against:** • It is a study of one person whose problems might be unique • Generalising to others from one person is restricted; everyone's problems might be different. • What is needed is to find what those with the disorder have in common and this cannot be done with a case study.	**12**

Question	Answer	Marks
10	***'Wrapping a gift is irrelevant: it is what is inside that is important.'*** **To what extent do you agree with this statement? Use examples of research you have studied to support your answer.** **Marks:** use generic levels of response in table C. **Syllabus:** gift wrapping (Porublev et al., 2009) **Most likely** (any other appropriate responses should be credited): **For:** • Wrapping a gift creates expectation of what is inside • Wrapping a gift shows attention to detail; that the person giving the gift cares. • Quote 'Wrapping a gift meets individual and social expectations of what a gift should look like'. • Wrapping a gift can create a positive impression in a recipient being met for the first time. **Against:** • Wrapping a gift might create an expectation of what is inside and if that expectation isn't met the recipient may be disappointed. • It is the thought that counts. A gift, however wrapped, is better than no gift at all. • A plain gift wrapping may create initial disappointment, leading to higher than average pleasure when the actual gift is revealed. • Quote 'A naked gift can be acceptable in some circumstances and not acceptable in other circumstances, depending on the context of the exchange. For example, a naked gift can indicate the low worth of relationship (between the giver and the receiver) or that the giver has an unwillingness to personally invest in the gift.'	**12**

Question	Answer	Marks
11	***'Providing information is the best way to promote health.'*** **To what extent do you agree with this statement? Use examples of research you have studied to support your answer.** **Marks:** use generic levels of response in table C. **Syllabus:** fear arousal (Janis and Feshbach, 1953; Cowpe, 1989) **Most likely** (any other appropriate responses should be credited): **For**: • Some studies (e.g. Janis and Feshbach, 1953) show that moderate fear is more effective. • There are alternative ways in which health can be promoted, such as providing information. • The study by Cowpe (1989) found that combining fear arousal and providing information was successful. **Against**: • Some studies (e.g. Leventhal et al., 1967) show that 'high fear' is more effective. • Too little fear arousal will have no effect at all. • Fear can also act as a cue to action (health belief Model)	**12**

Question	Answer	Marks
12	***'Belbin's team role inventory is not a psychometric test.'*** **To what extent do you agree with this statement? Use examples of research you have studied to support your answer.** **Marks:** use generic levels of response in table C. **Syllabus:** measuring team roles: Belbin team inventory **Most likely** (any other appropriate responses should be credited): **It is not:** • Belbin himself says that it is not: the Belbin Inventory scores people on 'A tendency to behave, contribute and interrelate with others in a particular way.' • It analyses how people work together as a team. A psychometric test usually focuses on an individual person only. • Quote 'Observer Assessments provide independent evidence about an individual's Team Roles. A Self-Perception test is only as good as an individual's sense of personal realism. Some people answer in terms of how they would like to contribute rather than how they really behave.' **It is:** • It has many features of a psychometric test: reliability and validity for example. • Its origins were in a number of psychometric tests, so it is just an extension of a psychometric test. • Psychometric tests often classify people into different types. This is exactly what the Belbin test does.	**12**