
PSYCHOLOGY

9990/41

Paper 4 Specialist Options: Application

May/June 2018

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.

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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:

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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 proposed 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

Question	Answer	Marks
Section A: Stimulus question Psychology and abnormality		
1	Blaszczynski and Nower (2002) looked at the effect of imaginal desensitisation on patients with impulse control disorders and used relaxation (trigger) monitoring tables to measure the effectiveness of their therapy. These tables are completed at home by the patient. At the end of their treatment, the patient should report a significant reduction in the frequency and intensity of urges to act on impulse.	
1(a)	Explain the technique of ‘imaginal desensitisation’. Marks: for components of: ‘relaxation’ 1 mark, for ‘imaginal’ 1 mark. Most likely answer (other appropriate responses to be credited): The technique involves teaching a brief progressive muscle relaxation procedure. Clients are then instructed to visualize themselves being exposed to a situation that triggers the drive to carry out their impulsive behaviour, contemplating acting on their urge but then leaving the situation in a state of continued relaxation without having acted upon their urge. Sessions can be recorded on cassette audiotape for home-practice.	2
1(b)	Give <u>two</u> advantages of ‘imaginal desensitisation’. Marks: for each advantage: 1 mark basic answer. 2 marks elaboration. Most likely answer (other appropriate responses to be credited): From Blaszczynski and Nower: • It reduces the strength of the drive to carry out an habitual behaviour • It empowers the client by providing the necessary skills to resist such urges • It enhances a sense of self-efficacy by demonstrating that the client is in control of his actions • It can be used anywhere once the individual has learned the technique • It can be applied to a range of similar problems	4
1(c)	Suggest <u>two</u> problems with the use of relaxation monitoring tables. Marks: for each problem 1 mark basic answer, 2 marks elaboration Most likely answer (other appropriate responses to be credited): • patients may forget to fill them in; • may fill them in even though they have not completed a session; • may lie about their progress; • may not be able complete the sheets at the appropriate time each day and forget what has happened (Handout 3) • may misjudge the rating of ‘feelings when planning the behaviour’ (Handout 1)	4

Question	Answer	Marks
1(d)	Discuss the advantages and disadvantages of psychological techniques to treat impulse control disorders. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Advantages • once trained, techniques can be applied at home by the client; applied any time, any place, anywhere. • there are no drugs to take and so side effects and no addiction to the drugs. • the technique can be applied to a wide range of different disorders: gambling, sexual paraphilia, trichotillomania, kleptomania, compulsive buying, explosive aggression and compulsive eating behaviour. Disadvantages • Time with a therapist is initially much more than that given by a medical practitioner prescribing drugs. • A person may decide to withdraw from treatment to engage in the impulsive behaviour. • Any psychological therapy takes more time than taking a drug at the same time every day. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and consumer behaviour		
2	In their laboratory experiment Mackay and Olshavsky (1975) state ‘A number of methods can be used for externally measuring a cognitive map.’ The most popular method has been the ‘draw-a-map’ technique.	
2(a)	Explain the ‘draw-a-map’ technique. Marks: 1 mark for basic answer, 1 mark for elaboration/example (e.g. drawing of cognitive map). Most likely answer (other appropriate responses to be credited): • Participants draw the map in their head; • The drawing will likely include features such as landmarks, paths, nodes, districts and edges (after Lynch) • The drawing will contain errors (e.g. Euclidean bias) • The drawing will be a traditional ‘sketch map’	2
2(b)	Describe <u>two</u> ways in which cognitive maps can be measured, other than using the ‘draw-a-map’ technique. Marks: 1 mark basic answer, e.g. identification, 2 marks elaboration × 2 Most likely answer (other appropriate responses to be credited): From Mackay and Olshavsky: • Another graphic approach has been to ask subjects to draw lines indicating the distance between pairs of points on a map (Lowrey, 1970). These distances can be used directly to estimate a one dimensional cognitive map, or they can be transformed into a ratio judgment matrix and then scaled to produce a one dimensional map (Torgerson, 1958). • multidimensional scaling uses proximity data to estimate multidimensional maps. There is an extensive multidimensional scaling (MDS) literature in psychology (Nerlove, Romney, Shepard, 1972). The configuration of spatial stimuli are often used as an estimator for a subject's internal image or cognitive map.	4
2(c)	Suggest how ‘draw-a-map’ data could be analysed. Marks: 1–2 marks basic answer. 3–4 marks detailed answer/elaboration. Most likely answer (other appropriate responses to be credited): • Sketch maps are not numbers or words but drawings. • Drawings are qualitative data and so relevant analysis aspects apply. • Drawings could be analysed for the items included (such as Lynch’s 5 common elements). • Drawings could be categorised by a number of judges and agreement recorded.	4

Question	Answer	Marks
2(d)	Discuss the strengths and weaknesses of data gathered by the ‘draw-a-map’ technique. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Strengths • it gives an indication of what is in the mind of the participant, however poorly it is drawn. • it is easy to do, requires little equipment, and takes very little time. • Sketches can be compared at a glance. Weaknesses • analysing sketch maps is difficult. There are no numbers or words, just drawings. • sketch maps are prone to many typical sketch map errors such as super-ordinate scale bias. • A sketch map is not a cognitive map. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and health		
3	‘Please don’t make me sit in the middle!’ Evans and Wener (2007) claim that sitting in the middle seat of a row of three and having their personal space invaded is the reason why people experience crowding and stress on public transport.	
3(a)	Explain how salivary cortisol can be used to measure stress. Marks: 1 mark for basic answer e.g. identification. 1 mark for elaboration/example/how it is used. Most likely answer (other appropriate responses to be credited): • salivary cortisol is a hormone produced in stressful situations (as is adrenaline) • saliva sample, collected in a salivette, can record levels of saliva giving an accurate measure of the extent of a stress response.	2
3(b)	Give <u>two</u> advantages of measuring salivary cortisol. Marks: 1 mark basic answer, 2 marks elaboration × 2 Indicative content: • salivary cortisol is reliable: all people produce salivary cortisol in stressful situations. • Salivary cortisol is ‘objective’; more difficult to be manipulated by a person. • Salivary cortisol is easily collected (in a salivette) unlike previous studies where urine samples were collected. • Participants are much more likely to participate than if a urine sample was needed.	4
3(c)	Suggest <u>two</u> alternative physiological measures of stress and explain why each of these was <u>not</u> used in the Evans and Wener study. Marks: 1 mark each alternative identified × 2. 1 mark each appropriate elaboration × 2. Most likely answer (other appropriate responses to be credited): • Urine sample – can measure the amount of adrenaline present in urine; not easy to take a sample on a train. People are less likely to agree to this than a saliva sample. • Blood sample – can measure the amount of adrenaline present in blood; not easy to take a sample on a train. Taking blood is invasive and people may opt out; taking blood needs a sterile environment – not a train. • GSR – can measure changes in skin conductance in stressful situations, but is unreliable.	4

Question	Answer	Marks
3(d)	Different ways to investigate stress can be more or less reductionist. Discuss the evidence that the approach taken by Evans and Wener is reductionist. You should consider both sides of the argument and include a conclusion. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Advantages • physiological measures are reliable. • physiological measures are relatively more objective than subjective psychological responses. • physiological measures provide quantitative data that can be analysed and compared. Disadvantages • physiological measures may not be valid – they may measure stress before the measure is taken or anticipated stress to happen in the future, not the stressful event under investigation. • physiological measures do not provide an explanation for the stress response. • physiological measures isolate the response at that time and place; other factors may be responsible that are not considered in this study. Sitting in the middle may not be the only stressor for a person. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and organisations		
4	The study by Gold et al. (1992) found that the number of shiftwork accidents made by nurses was significantly higher in those working a ‘rotator’ shift. To investigate this further, the researchers sent questionnaires to all nurses. However, only 78% returned their questionnaires.	
4(a)	Explain what Gold et al. meant by a ‘rotator’ shift. Marks: 1 mark for basic answer e.g. identification. 1 mark for elaboration/example. Most likely answer (other appropriate responses to be credited): A rotator shift is where a worker works, within a month, 4 or more day or evening shifts and 4 or more night shifts. Other shifts patterns include: day/evening only; night, day/evening and occasional night; night/occasional day/evening; part-time rotator.	2
4(b)	Give <u>two</u> findings for ‘rotators’ compared with ‘non-rotators’, other than the number of shiftwork accidents. Marks: 1 mark basic finding/statement, 2 marks elaboration, such as inclusion of data, × 2 Most likely answer (other appropriate responses to be credited): • Rotators had twice the odds of nodding off whilst driving to and from work; when compared to day/evening nurses, rotators had 3.9 times the odds and night nurses had 3.6 times the odds of nodding off while driving to or from work in the preceding year. • Rotators had more sleep/wake cycle disruption and nodded off more at work. Nodding off on the night shift occurred at least once per week in 35.3% of rotators, 32.4% of night nurses, and 20.7% of day/evening nurses who worked occasional nights. On the other hand, neither day/evening nurses nor rotating nurses reported significant problems with nodding off on the day or evening shift (rates for nodding off: 2.8% and 2.7%).	4
4(c)	Suggest <u>two</u> reasons why only 78% of participants returned their questionnaires. Marks: 1 mark basic answer, 2 marks elaboration, × 2 Most likely answer (other appropriate responses to be credited): 36 (4.1%) refused to participate and 155 (17.7%) failed to return the questionnaire. • may not see the questionnaire; • may see it and complete it but not return it; • decide that it does not apply to them; • they have something to hide; • they do not want to give out personal details.	4

Question	Answer	Marks
4(d)	Discuss the advantages and disadvantages of using questionnaires to gather data about accidents in the workplace. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Advantages • Questionnaires can include a wide range of pertinent items that may not be included in a self report of an accident. • Questionnaires can provide quantitative data which may allow comparisons to be made with other accidents of the same type. • Questionnaires can provide qualitative data through open ended questions allowing a worker to report in detail what happened. Disadvantages • the questionnaire might be pre-written with items that do not apply or do not cover the specifics of a particular accident. • workers may not answer the questions truthfully if their job is at stake. • Questionnaires may only give quantitative data; an open ended-question may be more revealing • Questionnaires might include leading words. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section B: Design question (a)=10 marks, (b)=8 marks		
5	A person is accused of setting several fires. You have to determine whether they are an accidental firestarter, an arsonist or a pyromaniac.	
5(a)	Design an interview to investigate what type of firesetter the accused person is. 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: interview. Typical features: • Questionnaires/Interviews: type, setting, example questions. Scoring/rating scale, analysis of responses. • Typical 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 interview 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 ICDs and non-substance addictive disorder: types: kleptomania, pyromania (Burton et al., 2012) and gambling disorder. Psychological: Not all firesetters have committed arson; most arsonists do not meet the diagnostic criteria for pyromania. In short, firesetting is a behaviour, arson is a crime, and pyromania is a psychiatric diagnosis. Firesetting is a behaviour that includes both the accidental (e.g., falling asleep with a cigarette) and intentional setting of fires (with or without criminal intent). Intentional firesetting is not always a symptom of underlying psychiatric pathology, nor is it always a criminal act. For example, interest in fire is nearly universal in children, and firesetting is often due to curiosity in this age group. Arson, a subtype of firesetting, is a criminal act in which one wilfully and maliciously sets fire to or aids in setting fire to a structure, dwelling, or property of another. Individuals with pyromania engage in intentional and pathological firesetting, but do not always commit the crime of arson. Note: Any additional evidence that is appropriate is to receive credit. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
6 Most people do not like to queue in a fast-food restaurant.		
6(a)	Design a field experiment to investigate which layout design option for a fast-food restaurant produces the least queueing. 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: field experiment. Typical features: • Experiments: type, IV, DV, controls, experimental design. • Typical 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: Personal space: defending place in a queue (Milgram et al., 1986); retail/leisure environment design: store interior layout (Vrechopoulos, 2004) Psychological: Fast food restaurants, for example, have several different layout options. Some use queues where consumers funnel down into service personnel from a single line (i.e., Wendy’s) while others have multiple waiting lines that form in front of whichever cash registers are in use at that time (i.e., McDonald’s). The same number of consumers waiting to be served will result in a longer line in the first situation than in the second. A research question that could be addressed is, do these alternative waiting strategies influence perceptions of crowding and/or approach-avoidance behaviour? This is also an area that service researchers could investigate since the layout designs used by services are often vastly different from those used by merchandise oriented retailers. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
7(a)	Design an experiment to investigate the effectiveness of a stress inoculation programme to reduce ill health. 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: experiment. Typical features: • Experiments: type, IV, DV, controls, experimental design. • Typical 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: management of stress: preventing stress (Meichenbaum, 1985) Psychological: Meichenbaum outlines stress inoculation training, designed to prevent stress from being a problem for a person. Three phases of conceptualisation, skill acquisition and rehearsal and relapse prevention. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
8(a)	Design a study using a questionnaire to investigate management perceptions of bullying at work. 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. Typical features: • Questionnaires/Interviews: type, setting, example questions. Scoring/rating scale, analysis of responses. • Typical 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: Physical and psychological work conditions: psychological: bullying at work (Einarsen, 1999) Psychological: From the study: ‘Bullying occurs when someone at work is systematically subjected to aggressive behaviour from one or more colleagues or superiors over a long period of time, in a situation where the target finds it difficult to defend him or herself or to escape the situation.’ There are different kinds of bullying and there are different ways in which bullying can be measured. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
Section C: Evaluation question = 12 marks		
9	<i>‘Electro-convulsive therapy (ECT) is <u>not</u> a cure for depression.’</i> 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: treatment and management of depression: electro-convulsive therapy. Most likely (any other appropriate responses should be credited): For: - ECT has a higher success rate for severe depression than any other form of treatment. - people who cannot take antidepressants due to problems of health or lack of response and pregnant women who suffer from depression or mania. - A patient who is very intent on suicide, and who would not wait three weeks for an antidepressant to work, would be a good candidate for ECT because it works more rapidly. Suicide attempts are relatively rare after ECT. Against: 20 to 50% of the people who respond well to a course of ECT relapse within 6 months, a maintenance treatment of antidepressants, lithium or ECT at monthly or six week intervals is given. - The scientific evidence regarding the efficacy of the treatment has been firmly established in the professional literature. - Short-term memory loss is often reported. Many patients perceive the treatment as terrifying and shameful.	12

Question	Answer	Marks
10	<i>‘To gather data about table spacing in restaurants, online questionnaires are more effective than studying participants in actual restaurants.’</i> 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: personal space: space at restaurant tables (Robson et al., 2011) Most likely (any other appropriate responses should be credited): Robson et al. (2011) used a web-based questionnaire. For: • sample size can be very large and so the findings would be more representative (Robson et al. had ‘more than 1000 participants’) • there is no restaurant needed (so effective for people who do not like going to restaurants); no tables to be moved; no participants to be experimented on or observed. • Data gathered can be quantitative (closed questions / specific type of rating scale) and so statistically analysed; data could also be qualitative with open-ended questions. Against: • sample is self-selecting/volunteers and may not be generalised. • There is no guarantee that participants will provide honest answers; may respond to demand characteristics. • A questionnaire is ‘artificial’ in that estimations of distance may be inaccurate. Sitting at actual tables spaced at different distances is real and will produce valid data.	12

Question	Answer	Marks
11	<i>‘Some studies of patient-practitioner relationships only collect data about non-verbal communications. This is too reductionist to be of any value.’</i> 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: practitioner and patient interpersonal skills: non-verbal communications (McKinstry and Wang, 1991) Most likely (any other appropriate responses should be credited): For: • Isolating specific variables to be studied is of significant value (such as knowing preferred doctor dress style) • A range of different behaviours cannot all be studied at the same time. Against: • isolating specific variables results in any interaction between variables to be missed. • Specific aspects may not generalise. • One variable may appear relevant but it becomes much less important when paired with other variables. For example, doctor dress style is important in isolation but may be much less important when related to doctor-centred or patient-centred styles.	12

Question	Answer	Marks
12	<i>‘Job design techniques always improve job satisfaction.’</i> 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: theories of job satisfaction: techniques of job design: enrichment, rotation and enlargement. Most likely (any other appropriate responses should be credited): Satisfaction of job redesign (general term) depends on a number of factors: For: • job enrichment is where workers are given more responsibility in the task they do. This may also include redesigning the task (as they are the user, the expert) or it may involve being responsible for a team of workers completing a task. This should increase satisfaction • job enlargement allows workers to take on additional and more varied tasks. No change in responsibility or involvement but an increase in workload. May or may not improve satisfaction. Against: • job rotation keeps the worker at the same level of responsibility; there is simply a change in task to be done. There is variation and so reduces boredom, but it is unlikely to improve job satisfaction. Rotation done slowly e.g. rotate each month • Job enlargement may also not improve satisfaction. • The measure of job satisfaction may have flaws and so workers report negatively. • There may be other variables within an organisation or within an individual that result in job dissatisfaction such as physical and psychological working conditions, being too qualified for tasks, having a need for intrinsic motivation.	12

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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

Section C: Essay/Evaluate (Generic response descriptor)		
Level	Marks	Level Descriptor
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.

Question	Answer	Marks
Section A: Stimulus question Psychology and abnormality		
1	The aim of the study by Lovell et al. (2006) was to compare the effectiveness of cognitive behavioural therapy (CBT) for obsessive-compulsive disorder (OCD), delivered face-to-face or by telephone.	
1(a)	What was concluded about the effectiveness of the therapy? Marks: 1 mark for basic answer, e.g. identification, 1 mark for elaboration/example. Most likely answer (other appropriate responses to be credited): Quote from study: The clinical outcome of cognitive behaviour therapy delivered by telephone was equivalent to treatment delivered face to face and similar levels of satisfaction were reported.	2
1(b)	How and why did the researchers gather baseline data from the participants? Marks: 1 mark for 'how' and 1 mark for 'why'; 1 further mark for each for elaboration/example (e.g. use of Y-BOCS (OCD)). Most likely answer (other appropriate responses to be credited): • Quote from study: To establish baseline data we assessed patients twice, with four weeks in between, before randomisation to treatment groups. Researchers blinded to treatment allocation assessed patients at both of the baseline visits, the initial visit after treatment, and at one, three, and six months of follow-up. • Baseline data is gathered to allow a comparison with test data (the results) to determine whether the intervention has been successful.	4

Question	Answer	Marks
1(c)	Give <u>two</u> differences in the delivery of telephone and face-to-face therapy in this study. Marks: 1 mark basic difference, 2 marks detailed answer/elaboration, × 2 Most likely answer (other appropriate responses to be credited): Face to face therapy • with the therapist on an individual basis. • 10 one hour sessions • No homework • Practise with therapist • Therapist can see non-verbal communication • Travel to clinic/alien environment Telephone therapy • one face-to-face session with the therapist that covered the same material as the first session of the face-to-face, followed by • eight scheduled weekly telephone calls of up to 30 minutes in length. • Treatment was delivered in a shorter period of time • the therapist sent homework sheets to the patient. • Practise at home • No non-verbal communication • No travel/home environment	4
1(d)	Discuss the strengths and weaknesses of using telephone delivery of CBT with patients. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Strengths: • no travelling time to see the therapist • takes less time – 30 mins on phone. • Person at home is more comfortable being in their familiar environment; is less stressful than in an office. Weaknesses: • no non-verbal communication • therapist can't review materials (such as homework diary) • therapist can't control the environment such as no distractions in an office, but may be lots at home. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and consumer behaviour		
2	The layout of any store can increase sales and many designs have been proposed, such as the grid layout below. [<i>Question paper has drawing of a grid layout.</i>]	
2(a)	Give <u>one</u> advantage of a ‘racetrack’/‘boutique’ store layout. Marks: 1 mark for basic answer; 1 mark for elaboration/example. Most likely answer (other appropriate responses to be credited): Advantage: the shopper sees more of the goods available for sale. Elaboration (reason) the sales floor is organised into individual, semi-separate areas, each built around a particular shopping theme. It leads the customer along specific paths to visit as many store sections as possible.	2
2(b)	Give <u>two</u> differences between a ‘grid’ and a ‘freeform’ store layout. Marks: 1 mark basic answer, 2 marks elaboration, × 2 Most likely answer (other appropriate responses to be credited): • The grid layout facilitates routine and planned shopping behaviour, the free-form encourages browsing. • The grid layout reduces shopping time, the free-form increases browsing time. • The grid layout uses long aisles running parallel, the free-form is free-flowing and asymmetric.	4
2(c)	Suggest how <u>one</u> method, other than virtual reality, could be used to gather data about customer behaviour. Marks: 1–2 marks basic answer. 3–4 marks elaboration (e.g. inclusion of methodological detail). Most likely answer (other appropriate responses to be credited): • Conduct a field experiment: participants can be exposed to different layouts (IV) and complete various tasks (DV) or are then asked about their experiences and/or feelings/satisfaction. • Give a questionnaire or interview to determine shopping experiences based on what people think about different layout options. • Conduct an observation in various layout options and record time taken to find an item/negotiate the store (this would be most difficult of the three) but no data on experiences/satisfaction.	4

Question	Answer	Marks
2(d)	Discuss the advantages and disadvantages of research on store layout using virtual reality. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Strengths • VR controls the environment allowing a range of extraneous variables, such as other people, to be controlled. • IV can be manipulated more easily and is exactly the same for each participant. • participants do not need to move from the same place for each condition. Weaknesses • may have side effects such as simulator sickness – dizziness, nausea, headache and eyestrain • VR isn't real. To what extent can studies using VR be generalised? • VR excludes idiothetic input and other variables such as smell. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and health		
3	Unhealthy behaviours are difficult to change because of lifestyles; behaviours developed over a period of years that have become habitual. Lau et al. (1990) found that understanding how these habits are formed in the early years is important to understanding how they can be changed.	
3(a)	Explain why the study by Lau et al. (1990) is longitudinal. Marks: 1 mark for basic answer (e.g. 'over long period of time'), 1 mark for elaboration/ example (e.g. reason why) Most likely answer (other appropriate responses to be credited): • participants (students) complete baseline questions at start of university • participants complete additional questionnaires for each year they are at university.	2
3(b)	Give <u>two</u> differences between the 'enduring family socialisation model' and the 'lifelong openness' model. Marks: 2 marks for each correct difference. Indicative content: • The enduring family socialisation model argues that preventive health beliefs and behaviour are learned from the family during childhood and remain fairly stable throughout life. This model attributes primary influence to parents because their contact with their children begins earlier and is more sustained than contact from other socialising agents. This model does not view peers as very influential. The model would be invalidated by evidence from socialising agents outside the immediate family. • The lifelong openness model suggests that people are always open to persuasion from influential socialising agents; it gives parents no status. It would not expect the influence of a family to continue outside the home when alternative (and more important) models such as peers are available. This model would be invalidated if health beliefs remained stable after leaving home.	4
3(c)	Suggest <u>one</u> other model to explain the influence of family and peers on health beliefs. Marks: 1–2 marks basic answer. 3–4 marks detailed answer/elaboration. Most likely answer (other appropriate responses to be credited): The Windows of vulnerability model. • Parental influence persists unless the child is exposed to important social models who have different and more influential views. • there are periods of vulnerability: 1. Adolescents when children seek independence; 2. When children leave home and live on their own; 3. When they set up a home and get married (or similar).	4

Question	Answer	Marks
3(d)	Discuss the advantages and disadvantages of conducting longitudinal studies on health beliefs. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Advantages • it determines change or stability over time. Have parental beliefs persisted or have peers become influential. • it tracks the development of the same individual, so many factors remain constant. • measures can be repeated and so have reliability. Disadvantages • attrition: participants drop out; can't be contacted. • once a study has started the main variables cannot be changed, even though something new may be more relevant. • unforeseen variables may occur; life experiences may change health beliefs. Becoming seriously ill may change beliefs significantly – and nothing to do with family or peers. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and organisations		
4 Traditional management theory challenged.	For many years, Henry Mintzberg’s ten managerial roles allowed the nature of leadership to be defined. However, it has never been clear how leadership relates to the way managers in organisations manage their workers.	
4(a)	Explain the relationship between leadership and managerial roles. Marks: 1 mark for basic answer e.g. identification, 1 mark for elaboration/example. Most likely answer (other appropriate responses to be credited): Quote from Muczyk and Reimann ‘Mintzberg identified ten managerial roles: (1) figurehead, (2) leader, (3) liaison, (4) monitor, (5) disseminator, (6) spokesman, (7) entrepreneur, (8) disturbance handler, (9) resource allocator, and (10) negotiator. Leadership, as we use the term in this article, concerns the leader role as Mintzberg defined it. This role describes the relationship between the manager and subordinates that results in the satisfactory execution of subordinates' assignments and, thereby, the attainment of the important goals of the organizational unit for which the leader is responsible. What's more, we agree with Mintzberg's contention that providing leadership is the most important of the ten managerial roles.’	2
4(b)	Suggest <u>one</u> disadvantage of a participative/democratic style of leadership. Marks: 1 mark basic answer, 2–4 marks determined by quality of answer/ elaboration (e.g. aspects of indicative content) Most likely answer (other appropriate responses to be credited): - many managers have been forced to face the harsh reality that participative management simply may not work in some situations. - leadership is a two-way street, so a democratic style will be effective only if followers are both willing and able to participate actively in the decision-making process. If they are not, the leader cannot be democratic without also being ‘directive’ and following up very closely to see that directives are being carried out properly. - Sometimes decisions need to be made very quickly and the democratic style takes too long for a decision to be made. - Sometimes decisions about pay and redundancies for example need to be made, which would not happen with a democratic style.	4

Question	Answer	Marks															
4(c)	Give <u>two</u> types of leader behaviour determined by how much they participate with their workers and how much they direct their workers. Marks: 1 mark basic answer (e.g. identification of style), 2 marks description of type (e.g. Directive autocrat: low participation and high leader direction), × 2 Most likely answer (other appropriate responses to be credited): Muczyk and Reimann (1987) outline the following two types: (1) the directive autocrat, (2) the permissive autocrat, (3) the directive democrat, and (4) the permissive democrat. <i>Exhibit 1: Types of Leader Behaviors</i> <table><tr><td colspan="2"></td><td colspan="2">Degree of Participation in Decision Making:</td></tr><tr><td colspan="2"></td><td>Low</td><td>High</td></tr><tr><td rowspan="2">Amount of Leader Direction:</td><td>High</td><td>Directive Autocrat</td><td>Directive Democrat</td></tr><tr><td>Low</td><td>Permissive Autocrat</td><td>Permissive Democrat</td></tr></table>			Degree of Participation in Decision Making:				Low	High	Amount of Leader Direction:	High	Directive Autocrat	Directive Democrat	Low	Permissive Autocrat	Permissive Democrat	4
		Degree of Participation in Decision Making:															
		Low	High														
Amount of Leader Direction:	High	Directive Autocrat	Directive Democrat														
	Low	Permissive Autocrat	Permissive Democrat														

Question	Answer	Marks
4(d)	Discuss the advantages and disadvantages of determining leadership styles in organisations. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Answers could focus on style as applied in an organisation OR could focus on measures used to determine styles. Advantage: • if a leadership style is known then workers know how to behave/ how to <i>follow</i> the leader. • Known styles may lead to more effective decisions being made by management teams (groupthink) • If a Board of directors thinks style 'x' is best they are likely to appoint a leader who has style 'x' • Psychometric measures can be used to determine styles Disadvantage: • The measure to determine styles may be faulty/inappropriate/may not measure adequately. • Knowing a style may not be a style suited to the efficient running of that organisation. • Styles may be too rigid; situational leaders, for example, adapt to any given situation. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section B: Design question (a) = 10 marks, (b) = 8 marks		
5(a)	Design a study using a questionnaire to investigate the most common body dysmorphic disorder behaviours. 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. Typical features: • Questionnaires/Interviews: type, setting, example questions. Scoring/rating scale, analysis of responses. • Typical 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: Virtually everyone with BDD engages in one or more BDD-related behaviour. These behaviours are intended to check the perceived defect, obtain reassurance about how it looks, fix it, or hide it from other people. These behaviours are compulsive. Included: camouflaging, comparing with others, checking in mirrors (surfaces), seeking surgery, excessive grooming, seeking reassurance that there is a defect. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
6(a)	Design a field experiment conducted on an aeroplane to investigate the effect of noise on the perceived sweetness of food. 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: field experiment. Typical features: • Experiments: type, IV, DV, controls, experimental design. • Typical 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: sound and consumer behaviour: background noise and food perception (Woods et al., 2010). Psychological: Woods et al. (2010): We investigated the effects of auditory background noise on the perception of gustatory food properties (sugar level, salt level), food crunchiness and food liking. Participants blindly consumed different foods whilst passively listening to either no sound, or quiet or loud background white noise. The foods were then rated in terms of sweetness, saltiness and liking (Experiment 1) or in terms of overall flavour, crunchiness and liking (Experiment 2). Reported sweetness and saltiness was significantly lower in the loud compared to the quiet sound conditions (Experiment 1), but crunchiness was reported to be more intense (Experiment 2). This suggests that food properties unrelated to sound (sweetness, saltiness) and those conveyed via auditory channels (crunchiness) are differentially affected by background noise. A relationship between ratings of the liking of background noise and ratings of the liking of the food was also found (Experiment 2). We conclude that background sound unrelated to food diminishes gustatory food properties (saltiness, sweetness) which is suggestive of a cross-modal contrasting or attentional effect, whilst enhancing food crunchiness. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
7	Despite many campaigns, people still suffer serious head injuries because they do not wear a protective helmet when riding a bicycle.	
7(a)	Design a study to investigate the effectiveness of a fear arousal campaign to promote the wearing of bicycle helmets. 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. Typical 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. Typical 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: strategies for promoting health: fear arousal (Janis and Feshbach, 1953; Cowpe, 1989). Psychological: Janis and Feshbach used a fear arousal campaign (three levels of fear) to raise awareness of dental hygiene. Minimal fear was most effective. Candidates may refer to the Dannenberg et al. (1993) study on cycle helmet use in the USA (Maryland). Here the law was changed and an ‘educational campaign’ implemented. Candidates may also refer to the Yale model of Communication where the characteristics of the message (maybe to arouse fear) may apply. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
8(a)	Design a study to investigate whether the illusion of unanimity occurs when groupthink occurs. 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. Typical 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. • Typical 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: Decision-making: groupthink (Janis, 1971) and strategies to avoid groupthink. Psychological: According to Janis, the illusion of unanimity is when members of the group make the false assumption that any individual who remains silent during any part of the discussion is in full agreement with what the others are saying. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
Section C: Evaluation question = 12 marks		
9	<i>‘Even though Little Albert was just one child, the behavioural explanation of anxiety disorders can be generalised to everyone.’</i> 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: explanations of phobias: behavioural (classical conditioning, Watson, 1920). Most likely (any other appropriate responses should be credited): For: • The behavioural explanation of learning (classical conditioning) occurs for all people with many things (not just Little Albert) • The behavioural explanation led to the development of ways in which fears and phobias can be reduced (e.g. systematic desensitisation). • The principles can be generalised, not necessarily the specific example. Against: • People are different and what applies to many people will not apply to many others. • The approach excludes the role of cognitive factors (such as the DiNardo example with fears of dogs) • The case study of little Albert had weaknesses – claims that Albert was not a normal child.	12

Question	Answer	Marks
10	<i>‘Product colour associations are universal rather than cultural: everyone likes blue detergent.’</i> 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: packaging, positioning and placement: product colour and associative learning (Grossman & Wisenblit, 1999). Most likely (any other appropriate responses should be credited): For: • Some colour associations among consumers are consistent across countries. Most consumers (more than 50%) of China, Korea, Japan and the USA select green as the appropriate colour for a label on a can of vegetables and many associate yellow with a box of candy. • Worldwide brands are associated with specific colours: cans of cola are red, as is the label on bottles. • Blue is associated with boys and pink with girls in many cultures. • Colours such as red are associated with danger and green with safety (e.g. traffic lights) Against: • colours are associated with more than one thing; it is not one colour for one item; • colours are associated with different things in different cultures. • For example in the West, green is associated with hopefulness, white with purity, black with mourning, red with love or revolution and yellow with hatred. In China, white is associated with righteousness and yellow with trustworthiness. Black is associated with dullness and stupidity in Indian culture, while red suggests ambition and desire (Kreiter and Kreitler, 1972).	12

Question	Answer	Marks
11	<i>'Using observation to measure pain will never be as effective as a self-report.'</i> 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 pain: behavioural/observational measures (UAB pain behavior scale). Most likely (any other appropriate responses should be credited): For observation: - the patient does not know he or she is being observed, so pain behaviour is natural. - The patient will exhibit typical pain behaviours: ambulation of posture, distorted facial expression, etc. - The observer can use response categories and record quantitative data. - Inter-rater reliability can be tested to determine the extent of reliability of the observations. - Vague descriptions of pain are eliminated 'it hurts a lot'. Against: - The patient plays no part in recording his or her pain, no record of the experience of the pain. - The observations may not collect qualitative data; observation cannot record thoughts. - The assumption that all people show the same pain behaviours may not be true.	12

Question	Answer	Marks
12	<i>‘The situation is irrelevant; all any leader needs to succeed is individual charisma.’</i> 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: traditional and modern theories of leadership: universalist and behavioural theories. Most likely (any other appropriate responses should be credited): For: • this theory believes that great leaders are born rather than made because they possess the characteristics and qualities that make them great. • Wood proposed the ‘great-man/woman’ theory, and charismatic or transformational leaders also come into this category. • Charismatic people have achieved phenomenal things, even when they are terrible. Against: • There are theories of situational leadership (e.g. Hersey and Blanchard) • There are theories of Adaptive leadership (to the situation) e.g. Heifetz (1997) but a great leader could adapt. • Successful leadership shows a relationship between leaders and followers.	12

PSYCHOLOGY

9990/43

Paper 4 Specialist Options: Application

May/June 2018

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.

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Cambridge Assessment
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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.

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 proposed 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

Question	Answer	Marks
Section A: Stimulus question Psychology and abnormality		
1	Blaszczynski and Nower (2002) looked at the effect of imaginal desensitisation on patients with impulse control disorders and used relaxation (trigger) monitoring tables to measure the effectiveness of their therapy. These tables are completed at home by the patient. At the end of their treatment, the patient should report a significant reduction in the frequency and intensity of urges to act on impulse.	
1(a)	Explain the technique of ‘imaginal desensitisation’. Marks: for components of: ‘relaxation’ 1 mark, for ‘imaginal’ 1 mark. Most likely answer (other appropriate responses to be credited): The technique involves teaching a brief progressive muscle relaxation procedure. Clients are then instructed to visualize themselves being exposed to a situation that triggers the drive to carry out their impulsive behaviour, contemplating acting on their urge but then leaving the situation in a state of continued relaxation without having acted upon their urge. Sessions can be recorded on cassette audiotape for home-practice.	2
1(b)	Give <u>two</u> advantages of ‘imaginal desensitisation’. Marks: for each advantage: 1 mark basic answer. 2 marks elaboration. Most likely answer (other appropriate responses to be credited): From Blaszczynski and Nower: • It reduces the strength of the drive to carry out an habitual behaviour • It empowers the client by providing the necessary skills to resist such urges • It enhances a sense of self-efficacy by demonstrating that the client is in control of his actions • It can be used anywhere once the individual has learned the technique • It can be applied to a range of similar problems	4
1(c)	Suggest <u>two</u> problems with the use of relaxation monitoring tables. Marks: for each problem 1 mark basic answer, 2 marks elaboration Most likely answer (other appropriate responses to be credited): • patients may forget to fill them in; • may fill them in even though they have not completed a session; • may lie about their progress; • may not be able complete the sheets at the appropriate time each day and forget what has happened (Handout 3) • may misjudge the rating of ‘feelings when planning the behaviour’ (Handout 1)	4

Question	Answer	Marks
1(d)	Discuss the advantages and disadvantages of psychological techniques to treat impulse control disorders. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Advantages • once trained, techniques can be applied at home by the client; applied any time, any place, anywhere. • there are no drugs to take and so side effects and no addiction to the drugs. • the technique can be applied to a wide range of different disorders: gambling, sexual paraphilia, trichotillomania, kleptomania, compulsive buying, explosive aggression and compulsive eating behaviour. Disadvantages • Time with a therapist is initially much more than that given by a medical practitioner prescribing drugs. • A person may decide to withdraw from treatment to engage in the impulsive behaviour. • Any psychological therapy takes more time than taking a drug at the same time every day. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and consumer behaviour		
2	In their laboratory experiment Mackay and Olshavsky (1975) state ‘A number of methods can be used for externally measuring a cognitive map.’ The most popular method has been the ‘draw-a-map’ technique.	
2(a)	Explain the ‘draw-a-map’ technique. Marks: 1 mark for basic answer, 1 mark for elaboration/example (e.g. drawing of cognitive map). Most likely answer (other appropriate responses to be credited): • Participants draw the map in their head; • The drawing will likely include features such as landmarks, paths, nodes, districts and edges (after Lynch) • The drawing will contain errors (e.g. Euclidean bias) • The drawing will be a traditional ‘sketch map’	2
2(b)	Describe <u>two</u> ways in which cognitive maps can be measured, other than using the ‘draw-a-map’ technique. Marks: 1 mark basic answer, e.g. identification, 2 marks elaboration × 2 Most likely answer (other appropriate responses to be credited): From Mackay and Olshavsky: • Another graphic approach has been to ask subjects to draw lines indicating the distance between pairs of points on a map (Lowrey, 1970). These distances can be used directly to estimate a one dimensional cognitive map, or they can be transformed into a ratio judgment matrix and then scaled to produce a one dimensional map (Torgerson, 1958). • multidimensional scaling uses proximity data to estimate multidimensional maps. There is an extensive multidimensional scaling (MDS) literature in psychology (Nerlove, Romney, Shepard, 1972). The configuration of spatial stimuli are often used as an estimator for a subject's internal image or cognitive map.	4
2(c)	Suggest how ‘draw-a-map’ data could be analysed. Marks: 1–2 marks basic answer. 3–4 marks detailed answer/elaboration. Most likely answer (other appropriate responses to be credited): • Sketch maps are not numbers or words but drawings. • Drawings are qualitative data and so relevant analysis aspects apply. • Drawings could be analysed for the items included (such as Lynch’s 5 common elements). • Drawings could be categorised by a number of judges and agreement recorded.	4

Question	Answer	Marks
2(d)	Discuss the strengths and weaknesses of data gathered by the ‘draw-a-map’ technique. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Strengths • it gives an indication of what is in the mind of the participant, however poorly it is drawn. • it is easy to do, requires little equipment, and takes very little time. • Sketches can be compared at a glance. Weaknesses • analysing sketch maps is difficult. There are no numbers or words, just drawings. • sketch maps are prone to many typical sketch map errors such as super-ordinate scale bias. • A sketch map is not a cognitive map. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and health		
3	‘Please don’t make me sit in the middle!’ Evans and Wener (2007) claim that sitting in the middle seat of a row of three and having their personal space invaded is the reason why people experience crowding and stress on public transport.	
3(a)	Explain how salivary cortisol can be used to measure stress. Marks: 1 mark for basic answer e.g. identification. 1 mark for elaboration/example/how it is used. Most likely answer (other appropriate responses to be credited): • salivary cortisol is a hormone produced in stressful situations (as is adrenaline) • saliva sample, collected in a salivette, can record levels of saliva giving an accurate measure of the extent of a stress response.	2
3(b)	Give <u>two</u> advantages of measuring salivary cortisol. Marks: 1 mark basic answer, 2 marks elaboration × 2 Indicative content: • salivary cortisol is reliable: all people produce salivary cortisol in stressful situations. • Salivary cortisol is ‘objective’; more difficult to be manipulated by a person. • Salivary cortisol is easily collected (in a salivette) unlike previous studies where urine samples were collected. • Participants are much more likely to participate than if a urine sample was needed.	4
3(c)	Suggest <u>two</u> alternative physiological measures of stress and explain why each of these was <u>not</u> used in the Evans and Wener study. Marks: 1 mark each alternative identified × 2. 1 mark each appropriate elaboration × 2. Most likely answer (other appropriate responses to be credited): • Urine sample – can measure the amount of adrenaline present in urine; not easy to take a sample on a train. People are less likely to agree to this than a saliva sample. • Blood sample – can measure the amount of adrenaline present in blood; not easy to take a sample on a train. Taking blood is invasive and people may opt out; taking blood needs a sterile environment – not a train. • GSR – can measure changes in skin conductance in stressful situations, but is unreliable.	4

Question	Answer	Marks
3(d)	Different ways to investigate stress can be more or less reductionist. Discuss the evidence that the approach taken by Evans and Wener is reductionist. You should consider both sides of the argument and include a conclusion. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Advantages • physiological measures are reliable. • physiological measures are relatively more objective than subjective psychological responses. • physiological measures provide quantitative data that can be analysed and compared. Disadvantages • physiological measures may not be valid – they may measure stress before the measure is taken or anticipated stress to happen in the future, not the stressful event under investigation. • physiological measures do not provide an explanation for the stress response. • physiological measures isolate the response at that time and place; other factors may be responsible that are not considered in this study. Sitting in the middle may not be the only stressor for a person. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section A: Stimulus question Psychology and organisations		
4	The study by Gold et al. (1992) found that the number of shiftwork accidents made by nurses was significantly higher in those working a ‘rotator’ shift. To investigate this further, the researchers sent questionnaires to all nurses. However, only 78% returned their questionnaires.	
4(a)	Explain what Gold et al. meant by a ‘rotator’ shift. Marks: 1 mark for basic answer e.g. identification. 1 mark for elaboration/example. Most likely answer (other appropriate responses to be credited): A rotator shift is where a worker works, within a month, 4 or more day or evening shifts and 4 or more night shifts. Other shifts patterns include: day/evening only; night, day/evening and occasional night; night/occasional day/evening; part-time rotator.	2
4(b)	Give <u>two</u> findings for ‘rotators’ compared with ‘non-rotators’, other than the number of shiftwork accidents. Marks: 1 mark basic finding/statement, 2 marks elaboration, such as inclusion of data, × 2 Most likely answer (other appropriate responses to be credited): • Rotators had twice the odds of nodding off whilst driving to and from work; when compared to day/evening nurses, rotators had 3.9 times the odds and night nurses had 3.6 times the odds of nodding off while driving to or from work in the preceding year. • Rotators had more sleep/wake cycle disruption and nodded off more at work. Nodding off on the night shift occurred at least once per week in 35.3% of rotators, 32.4% of night nurses, and 20.7% of day/evening nurses who worked occasional nights. On the other hand, neither day/evening nurses nor rotating nurses reported significant problems with nodding off on the day or evening shift (rates for nodding off: 2.8% and 2.7%).	4
4(c)	Suggest <u>two</u> reasons why only 78% of participants returned their questionnaires. Marks: 1 mark basic answer, 2 marks elaboration, × 2 Most likely answer (other appropriate responses to be credited): 36 (4.1%) refused to participate and 155 (17.7%) failed to return the questionnaire. • may not see the questionnaire; • may see it and complete it but not return it; • decide that it does not apply to them; • they have something to hide; • they do not want to give out personal details.	4

Question	Answer	Marks
4(d)	Discuss the advantages and disadvantages of using questionnaires to gather data about accidents in the workplace. You should include a conclusion in your answer. Marks: Question requires discussion; always plural of each argument, and always requires conclusion. 1 mark for each advantage/disadvantage up to 4 max. 1 mark for conclusion. Most likely answer (other appropriate responses to be credited): Advantages • Questionnaires can include a wide range of pertinent items that may not be included in a self report of an accident. • Questionnaires can provide quantitative data which may allow comparisons to be made with other accidents of the same type. • Questionnaires can provide qualitative data through open ended questions allowing a worker to report in detail what happened. Disadvantages • the questionnaire might be pre-written with items that do not apply or do not cover the specifics of a particular accident. • workers may not answer the questions truthfully if their job is at stake. • Questionnaires may only give quantitative data; an open ended-question may be more revealing • Questionnaires might include leading words. Conclusion: any appropriate conclusion drawn from the discussion that has been presented.	5

Question	Answer	Marks
Section B: Design question (a)=10 marks, (b)=8 marks		
5	A person is accused of setting several fires. You have to determine whether they are an accidental firestarter, an arsonist or a pyromaniac.	
5(a)	Design an interview to investigate what type of firesetter the accused person is. 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: interview. Typical features: • Questionnaires/Interviews: type, setting, example questions. Scoring/rating scale, analysis of responses. • Typical 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 interview 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 ICDs and non-substance addictive disorder: types: kleptomania, pyromania (Burton et al., 2012) and gambling disorder. Psychological: Not all firesetters have committed arson; most arsonists do not meet the diagnostic criteria for pyromania. In short, firesetting is a behaviour, arson is a crime, and pyromania is a psychiatric diagnosis. Firesetting is a behaviour that includes both the accidental (e.g., falling asleep with a cigarette) and intentional setting of fires (with or without criminal intent). Intentional firesetting is not always a symptom of underlying psychiatric pathology, nor is it always a criminal act. For example, interest in fire is nearly universal in children, and firesetting is often due to curiosity in this age group. Arson, a subtype of firesetting, is a criminal act in which one wilfully and maliciously sets fire to or aids in setting fire to a structure, dwelling, or property of another. Individuals with pyromania engage in intentional and pathological firesetting, but do not always commit the crime of arson. Note: Any additional evidence that is appropriate is to receive credit. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
6 Most people do not like to queue in a fast-food restaurant.		
6(a)	Design a field experiment to investigate which layout design option for a fast-food restaurant produces the least queueing. 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: field experiment. Typical features: • Experiments: type, IV, DV, controls, experimental design. • Typical 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: Personal space: defending place in a queue (Milgram et al., 1986); retail/leisure environment design: store interior layout (Vrechopoulos, 2004) Psychological: Fast food restaurants, for example, have several different layout options. Some use queues where consumers funnel down into service personnel from a single line (i.e., Wendy’s) while others have multiple waiting lines that form in front of whichever cash registers are in use at that time (i.e., McDonald’s). The same number of consumers waiting to be served will result in a longer line in the first situation than in the second. A research question that could be addressed is, do these alternative waiting strategies influence perceptions of crowding and/or approach-avoidance behaviour? This is also an area that service researchers could investigate since the layout designs used by services are often vastly different from those used by merchandise oriented retailers. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
7(a)	Design an experiment to investigate the effectiveness of a stress inoculation programme to reduce ill health. 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: experiment. Typical features: • Experiments: type, IV, DV, controls, experimental design. • Typical 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: management of stress: preventing stress (Meichenbaum, 1985) Psychological: Meichenbaum outlines stress inoculation training, designed to prevent stress from being a problem for a person. Three phases of conceptualisation, skill acquisition and rehearsal and relapse prevention. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
8(a)	Design a study using a questionnaire to investigate management perceptions of bullying at work. 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. Typical features: • Questionnaires/Interviews: type, setting, example questions. Scoring/rating scale, analysis of responses. • Typical 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: Physical and psychological work conditions: psychological: bullying at work (Einarsen, 1999) Psychological: From the study: ‘Bullying occurs when someone at work is systematically subjected to aggressive behaviour from one or more colleagues or superiors over a long period of time, in a situation where the target finds it difficult to defend him or herself or to escape the situation.’ There are different kinds of bullying and there are different ways in which bullying can be measured. Methodological: explanation of method using typical features as above.	8

Question	Answer	Marks
Section C: Evaluation question = 12 marks		
9	<i>‘Electro-convulsive therapy (ECT) is <u>not</u> a cure for depression.’</i> 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: treatment and management of depression: electro-convulsive therapy. Most likely (any other appropriate responses should be credited): For: - ECT has a higher success rate for severe depression than any other form of treatment. - people who cannot take antidepressants due to problems of health or lack of response and pregnant women who suffer from depression or mania. - A patient who is very intent on suicide, and who would not wait three weeks for an antidepressant to work, would be a good candidate for ECT because it works more rapidly. Suicide attempts are relatively rare after ECT. Against: 20 to 50% of the people who respond well to a course of ECT relapse within 6 months, a maintenance treatment of antidepressants, lithium or ECT at monthly or six week intervals is given. - The scientific evidence regarding the efficacy of the treatment has been firmly established in the professional literature. - Short-term memory loss is often reported. Many patients perceive the treatment as terrifying and shameful.	12

Question	Answer	Marks
10	<i>‘To gather data about table spacing in restaurants, online questionnaires are more effective than studying participants in actual restaurants.’</i> 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: personal space: space at restaurant tables (Robson et al., 2011) Most likely (any other appropriate responses should be credited): Robson et al. (2011) used a web-based questionnaire. For: • sample size can be very large and so the findings would be more representative (Robson et al. had ‘more than 1000 participants’) • there is no restaurant needed (so effective for people who do not like going to restaurants); no tables to be moved; no participants to be experimented on or observed. • Data gathered can be quantitative (closed questions / specific type of rating scale) and so statistically analysed; data could also be qualitative with open-ended questions. Against: • sample is self-selecting/volunteers and may not be generalised. • There is no guarantee that participants will provide honest answers; may respond to demand characteristics. • A questionnaire is ‘artificial’ in that estimations of distance may be inaccurate. Sitting at actual tables spaced at different distances is real and will produce valid data.	12

Question	Answer	Marks
11	<i>‘Some studies of patient-practitioner relationships only collect data about non-verbal communications. This is too reductionist to be of any value.’</i> 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: practitioner and patient interpersonal skills: non-verbal communications (McKinstry and Wang, 1991) Most likely (any other appropriate responses should be credited): For: • Isolating specific variables to be studied is of significant value (such as knowing preferred doctor dress style) • A range of different behaviours cannot all be studied at the same time. Against: • isolating specific variables results in any interaction between variables to be missed. • Specific aspects may not generalise. • One variable may appear relevant but it becomes much less important when paired with other variables. For example, doctor dress style is important in isolation but may be much less important when related to doctor-centred or patient-centred styles.	12

Question	Answer	Marks
12	<i>‘Job design techniques always improve job satisfaction.’</i> 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: theories of job satisfaction: techniques of job design: enrichment, rotation and enlargement. Most likely (any other appropriate responses should be credited): Satisfaction of job redesign (general term) depends on a number of factors: For: • job enrichment is where workers are given more responsibility in the task they do. This may also include redesigning the task (as they are the user, the expert) or it may involve being responsible for a team of workers completing a task. This should increase satisfaction • job enlargement allows workers to take on additional and more varied tasks. No change in responsibility or involvement but an increase in workload. May or may not improve satisfaction. Against: • job rotation keeps the worker at the same level of responsibility; there is simply a change in task to be done. There is variation and so reduces boredom, but it is unlikely to improve job satisfaction. Rotation done slowly e.g. rotate each month • Job enlargement may also not improve satisfaction. • The measure of job satisfaction may have flaws and so workers report negatively. • There may be other variables within an organisation or within an individual that result in job dissatisfaction such as physical and psychological working conditions, being too qualified for tasks, having a need for intrinsic motivation.	12