

Q1.

A psychologist investigated the effect of anxiety on the accuracy of memory. She obtained a volunteer sample of 50 psychology students by putting up a poster on the college noticeboard. She showed the students two short films.

Condition 1: the film showed a violent crime (high-anxiety condition).

Condition 2: the film showed a comedy sketch (low-anxiety condition).

After watching the film in Condition 1, each student completed a questionnaire with 40 closed questions about events in the film. This was repeated for Condition 2.

The median number of correct and incorrect answers for each film was calculated.

The results are shown in the table below.

The median number of correct and incorrect answers for the two films

	High-anxiety condition	Low-anxiety condition
The median number of correct answers	16	32
The median number of incorrect answers	24	8

The psychologist used closed questions on the questionnaire.

Explain **one** reason why it might have been better to use open questions rather than closed questions on the questionnaire.

(Total 2 marks)

Q2.

A psychologist wanted to investigate teachers' opinions on differences in the way younger children and older children responded to instructions in class. Previous research showed inconsistent findings. The psychologist randomly selected five schools from all the primary schools in their city. Four of the five schools agreed to take part. The psychologist wrote six questions and interviewed the teachers of Year 2 and Year 5 in the four schools, asking each teacher the same six questions in the same order.

Identify the type of interview used in this study. Explain your answer.

(Total 2 marks)

Q3.

A psychologist wanted to investigate teachers' opinions on differences in the way younger children and older children responded to instructions in class. Previous research showed inconsistent findings. The psychologist randomly selected five schools from all the primary schools in their city. Four of the five schools agreed to take part. The psychologist wrote six questions and interviewed the teachers of Year 2 and Year 5 in the four schools, asking each teacher the same six questions in the same order.

One of the psychologist's questions asked the teachers to rate the general level of obedience for their class as a whole on a scale of 1–10. A rating of 1 meant the general level of obedience was low and a rating of 10 meant the general level of obedience was high.

Write **one** suitable open question the psychologist could use in their interview.

(Total 1 mark)

Q4.

A researcher wanted to investigate the types of play parents engaged in with their children. Ten children and one parent of each child took part in the study. The researcher asked each parent to keep a diary for a month about the types of play their child engaged in.

- (a) The researcher decided to interview some of the parents about their child's play.

Explain why the data collected from the interview might have improved upon the data collected from the diaries.

(3)

- (b) In the interview the researcher collected some qualitative data.

Write **one** question that could be used in the researcher's interview that would produce qualitative data.

(2)

(Total 5 marks)

Q5.

A prison officer investigating institutional aggression has devised a questionnaire for prisoners to complete. The questionnaire consists of a series of statements about prison life and the prisoners have to indicate how much they agree with each statement.

One statement in the questionnaire is 'The noise in the prison is unpleasant'. The response options in the questionnaire are 'Agree' and 'Disagree'.

Suggest how the response options in the questionnaire could be modified to better assess how much prisoners agree with the statement.

(Total 2 marks)

Q6.

A police trainer investigating offender profiling has devised a questionnaire for police officers to complete. The questionnaire consists of a series of statements about offender profiling and the police officers have to indicate how much they agree with each statement.

One statement in the questionnaire is 'Offender profiling can be helpful in solving crime'. The response options in the questionnaire are 'Agree' and 'Disagree'.

Suggest how the response options in the questionnaire could be modified to better assess how much the police officers agree with the statement.

(Total 2 marks)

Q7.

A social worker investigating nicotine addiction has devised a questionnaire for smokers to complete. The questionnaire consists of a series of statements about smoking, and smokers have to indicate how much they agree with each statement.

One statement in the questionnaire is 'Holding a cigarette makes me feel calm'. The response options in the questionnaire are 'Agree' and 'Disagree'.

Suggest how the response options in the questionnaire could be modified to better assess how much smokers agree with the statement.

(Total 2 marks)

Q8.

A teacher investigated students’ attitudes to the school’s uniform rules. The school consisted of students from Years 7–11, with 100 students in each year.

She conducted interviews individually with 10 students. One of the questions in the interview was, ‘How many times have you been ‘told off’ for not following the school’s uniform rules this term?’ The results from this question are shown in the table below.

Number of times each student had been ‘told off’ that term

Student	Number of times ‘told off’
1	1
2	7
3	2
4	3
5	4
6	5
7	3
8	1
9	25
10	2

Investigator effects sometimes occur in interviews.

Explain **two** modifications that would help to minimise investigator effects in this study.

Modification 1 _____

Modification 2 _____

(Total 4 marks)

Q9.

A new TV programme has been developed to increase positive social behaviours in pre-school children.

There is a proposal to carry out an experiment to compare the effects of the new TV programme and an existing TV programme, on positive social behaviours in pre-school children.

A sample of 500 pre-school children and their parents is available for the experiment. The parents have given consent for their children to take part in this experiment.

The experiment will take place over an 8-week period. Data on the children's social behaviours will be gathered from the parents using a self-report method.

Design the experiment to investigate whether watching the new TV programme leads to an increase in positive social behaviours in the children, compared with watching the existing TV programme.

In your answer you will gain credit for providing appropriate details of the following:

- the type of experimental design, with justification
- a self-report method of data collection, with justification
- how to control **one** extraneous variable, with justification as to why this would need to be controlled.

You may use this space to plan your answer.

(Total 12 marks)

Q10.

A survey of hospital patients has found that a new drug, Zapurpain, is as effective as other pain medication.

Explain **one** limitation of asking hospital patients to self-report the effectiveness of Zapurpain.

(Total 2 marks)