

Name: ANSWER Teacher: KEYMark: 150Percentage: %

Section One: Research methods

(19 marks)

Question 1

A psychologist was interested in studying the characteristics of young people who do volunteer work.

State **two** non-experimental research methods that the psychologist could use. (2 marks)

Interpretation, observations
Interactions, surveys,
Questionnaires

Any two
1 mark
each

Question 2

The factor being manipulated in an experiment is called the:

(1 mark)

Independent variable

Question 3

Contrast experimental research and non-experimental research.

(2 marks)

Experimental research has a cause-effect relationship,
can be replicated to produce similar results. (1) (1) and independent variable can be changed.
Non-experimental research does not have a cause-effect relationship, cannot be replicated to produce similar results. (1) uses observations & interpretations. (1) & independent variable cannot be changed. (1)
Minus 1 for each missing point

Question 4

Contrast scientific research and non-scientific research

(2 marks)

scientific research uses scientific method and can be replicated to produce similar results. (1)
Non-scientific research does not use scientific method & cannot be replicated to produce similar results. (1)

This section contains **one (1)** question that you must answer.

Pages are included at the end of the question for planning and writing your answer.

- ♦ **Planning:** If you use a page for planning, indicate this clearly at the top of the page.
- ♦ **Answering the question:** In the pages provided indicate clearly the section of the question you are answering.

Suggested working time: 20 minutes.

Question 14

A university lecturer has been asked to conduct research investigating how mild pain affects memory formation. She decides to use students from her tutorial class. She separates the students into two groups. She shows students in Group A a list of 20 words and then gives them two minutes to recall as many of the words as possible. She shows students in Group B the same list of 20 words, administers a mild electric shock to them, then gives them two minutes to recall as many of the words as possible.

In your answer, you should

- ♦ **State** one major issue than an ethics committee may have with this research and **explain** why this is an areas of concern.
- ♦ **Explain** how you would address each of the four main ethical guidelines if you were to conduct this research.

1 mark for paragraphs not dot-points

a) The lecturer using her own students. (1)

By the lecturer using her own students she has power over them. she has not made any effort to ensure voluntary participation. (1)

OR

The lecturer using her own students.

By the lecturer using her own students, it is convenience sampling therefore it is a biased sample

Question 11

Are these statements true (T) or false (F)?

(6 marks)

- a) Psychology investigates mind reading.
- b) Psychology investigates human emotion.
- c) Psychology investigates our behaviour.
- d) Psychology investigates how we make sense of our world.
- e) Psychology is just common sense.
- f) Psychology investigates our thoughts.

F
T
T
T
F
T

1 mark
each

Question 12

Are these statements true (T) or false (F)?

(6 marks)

- a) Psychiatrists can prescribe drugs.
- b) Psychologists can conduct scientific research.
- c) Psychologists do not have university degrees.
- d) Psychiatrists help to treat mental-health problems.
- e) Psychiatrists must have a medical degree.
- f) Psychologists help to treat mental-health problems.

T
T
F
T
T
T

1 mark
each

Question 13

Psychologists must keep all of a patient's personal information and records private.

(1 mark)

This is known as confidentiality

b) voluntary participation would involve perhaps advertising for ⁽¹⁾ participants so that the students have to apply of their own accord and free will. ⁽¹⁾

Informed consent would involve giving volunteers a letter after they have expressed their interest. The letter would explain ⁽¹⁾ the procedures, participants' rights and the risks involved to the participants. They must sign this before taking part in the study. ⁽¹⁾

Withdrawal rights would involve allowing participants to cease ⁽¹⁾ involvement at any time and withdraw their results without pressure to continue or penalty. ⁽¹⁾

Confidentiality would involve ensuring that all items of personal information ⁽¹⁾ are kept confidential, - securely stored and disposed of correctly after use. ⁽¹⁾

Question 7

(a) Provide a psychological definition of 'subject'.

(2 marks)

The people in the experiment being studied

(1)

Section Two: Short answer

(20 marks)

Question 8

A third-year psychology student surveyed 100 of her fellow students on the topic of what attracts them to others. When she completed her study, she posted the student's names and responses on the notice board in the cafeteria.

Name an ethical principle that was breached in the above scenario and explain how this principle was breached.

(3 marks)

Confidentiality was breached.

Confidentiality was breached as student names were used (1) and results were shared without written consent (1).

Question 9

Explain one beneficial result of unethical studies (such as Milgram's obedience studies) from the past in relation to ethical guidelines today.

(2 marks)

These studies got psychologists (1) discussing the need for (1) ethical guidelines.

Question 10

Provide a psychological definition of 'ethics'.

(2 marks)

The moral principles and codes of conduct that must be abided by. (1) either (governs a person's behaviour)

Question 5

Identify the independent and dependent variable in each hypothesis.

- (a) The relationship between exposure to television from ages 0-4 years and the level of social interaction the child had in primary school. (2 marks)

Independent variable: Exposure to television (1)

Dependent variable: social interaction (1)

- (b) The relationship between the frequency of symptoms of post-traumatic stress disorder and a sufferer's level of resilience. (2 marks)

Independent variable: level of resilience (1)

Dependent variable: frequency of PTSD symptoms (1)

- (c) A study investigating the relationship between the level of daily vitamin C intake and the incidence of breast cancer in women. (2 marks)

Independent variable: vitamin C intake (1)

Dependent variable: breast cancer incidence (1)

- (d) The relationship between the frequency of headaches experienced and the volume of music listened to in the car. (2 marks)

Independent variable: volume of music (1)

Dependent variable: frequency of headaches (1)

Question 6

Dr Anderson wanted to investigate the effects of caffeine on concentration.

- (i) Which of the following would be the best population for this study? (1 mark)

- (a) All students under the age of 25.
- ☒ (b) All adults between the ages of 18 and 50 years who consume caffeine on a regular basis.
- (c) All children living in Melbourne.
- (d) Everyone living in Australia.

- (ii) Which of the following would be the best sample for the study describe above? (1 mark)

- (a) Forty female students attending the local high school.
- (b) Five university students sitting on the tram.
- ☒ (c) 100 adults who consume caffeine on a regular basis.
- (d) Twenty-five children who have trouble concentrating.