

PSYCHOLOGY

Time allowed: 1.5 hours (90 minutes)

Section A (40%): You must answer all FOUR (4) questions

Section B (60%): You must answer ONE (1) question from a choice of six

SECTION A (40%)

Read the following research outline and answer all FOUR (4) questions below.

A fitness company wants to determine if a new fitness tracker improves physical activity levels. To do this, the company advertises the study online and invites people who have recently been trying to increase their exercise levels to volunteer for the study. They enrolled the first 286 people (30 female) who responded and asked them to complete a questionnaire measuring their weekly physical activity, including steps taken and exercise duration. They then give each participant a new fitness tracker and ask them to wear it for a month. At the end of the month, the participants are asked to complete the same physical activity questionnaire to assess any changes in their activity levels.

1. List any potential problems with the research methodology used.
2. Describe how you could improve the design and methods for this research.
3. What types and formats of questions might be included in the questionnaire, and why?
4. What ethical issues need to be considered in this project?

PLEASE MOVE ON TO SECTION B ON THE NEXT PAGE

SECTION B (60%)

Answer ONE (1) question from the choice of six below.

- 1) Describe the structure and function of a neuron.

- 2) How might psychology be useful in helping us to understand why young people who have never smoked are choosing to vape, and how might psychology help to address this health concern?

- 3) How can the understanding of how the brain and nervous system work inform psychology?

- 4) A patient who visits to the doctor with symptoms of depression is surprised that rather than being prescribed medication, the doctor refers them to a walking group. Compare these two very different ways of treating depression, including the mechanisms through which they work and a comparison of the pros and cons of each.

- 5) What can psychology tell us about the functions of music in everyday life? (answers can come from the perspective of both musicians who sing and play instruments as well as non-musicians who listen to or are exposed to music in everyday surroundings).

- 6) During the course of counselling with a client, what would you describe as an ethical dilemma?