**Section One – Research Methods (20 marks)**

**Question One**

Researchers wanted to investigate the ongoing health effects of working as a medical student at a busy city hospital. Participants were first year medical students chosen from a hospital close to the university where the researchers worked. They were followed throughout their medical training. Researchers met participants once a year over an eight-year period.

1. Name the study design used by researchers. Circle the correct answer below. (1 mark)

**Longitudinal / Cross-sectional**

1. State **one** advantage of using this type of study design.   (1 mark)

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1. State **one** disadvantage of using this type of study design. (1 mark)

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1. Identify the sampling technique used in this study. Justify your answer. (1 mark)

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1. State **one** disadvantage of this type of sampling. (1 mark)

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1. Provide ONE example of quantitative data and one example of qualitative data that psychologists could use to assess the health effects of working as a medical student. State whether each example is *objective* or *subjective.* (4 marks)

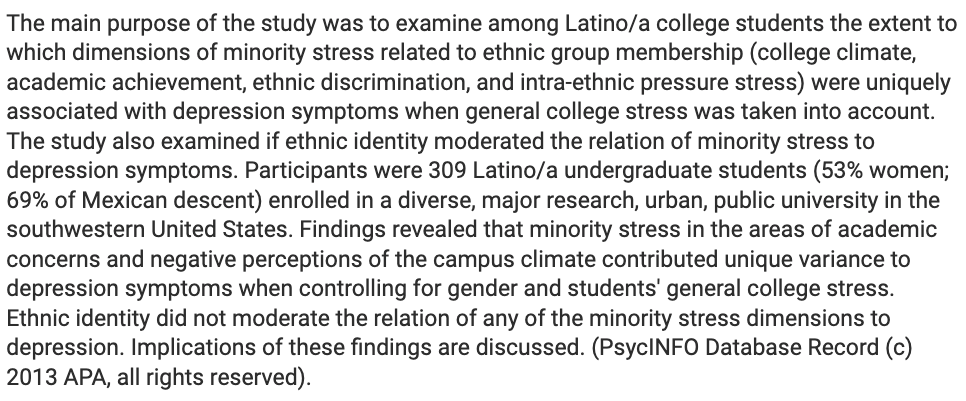
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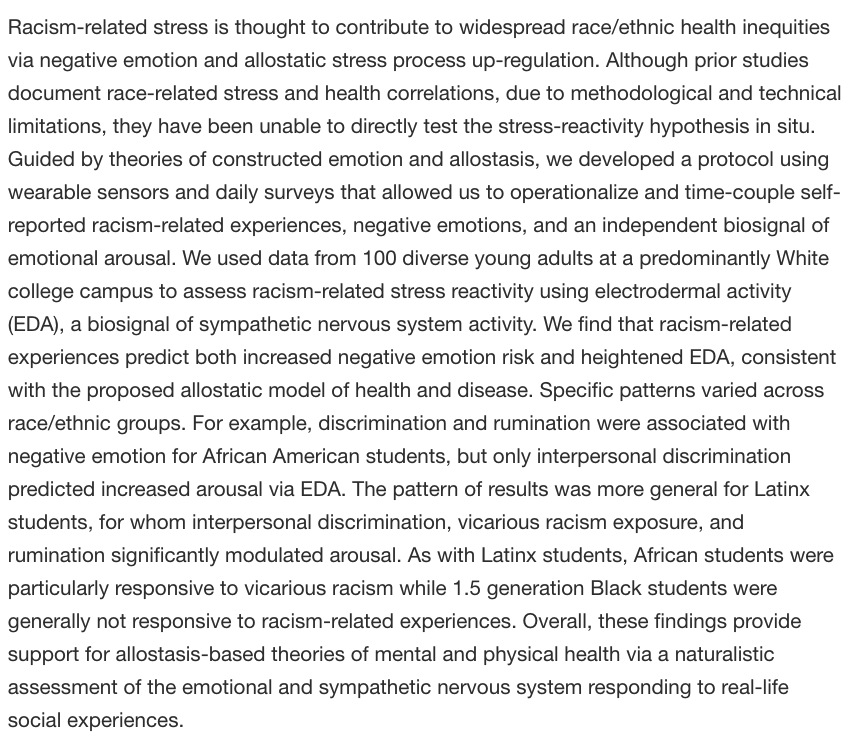
**Question Two**

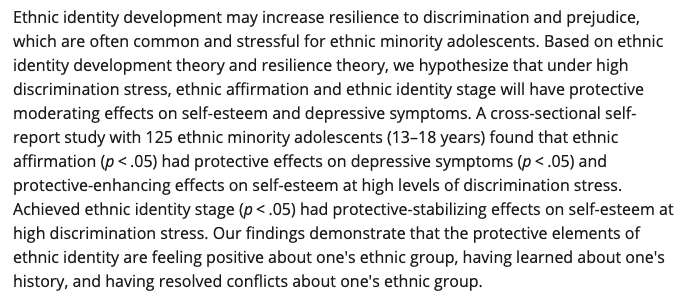
Read an abstract and interpret and develop an experiment: hypothesis and steps to ensure a reliable and valid method

Abstract one



Abstract two





**Short Answer Questions– Developmental Psychology (18 marks)**

1. Piaget identified four stages in a human’s cognitive development. Name and describe the two stages below: (4 marks)

*Piaget’s first stage of cognitive development*:

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Piaget’s third stage of cognitive development*:

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dana is playing hide and seek with her brother Dion (age three). Dion stands in the centre of the room and covers his eyes with his hands and says, ‘I am hiding’.

1. Explain, why Dion believes that he is hiding, referring to the relevant concept from Piaget’s theory of cognitive development. (2 marks) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Outline two skills that children develop as part of their social and emotional development. (2 marks)

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Table 2: Concordance rates of a given trait in Monozygotic and Dizygotic twins

|  |  |  |
| --- | --- | --- |
| Trait | Monozygotic Twins | Dizygotic Twins |
| IQ | 74 | 58 |
| Anxiety Disorder | 45 | 25 |
| Major Depression | 54 | 20 |

1. According to Table 2, which trait has a largest genetic component? Use information in the table to justify your answer. (2 marks)

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1. Explain why twin studies and adoption studies are useful for the Nature vs Nurture debate. (4 marks)

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