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**ATAR course examination**

**Semester Two 2021**

**YEAR 11**

**Psychology**

**Unit 1 & 2**

Student number: In figures

In words

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Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Time allowed for this paper**

Reading time before commencing work: ten minutes

Working time: three hours

**Materials required/recommended for this paper**

***To be provided by the supervisor***

This Question/Answer Booklet

***To be provided by the candidate***

Standard materials: pens (blue/black preferred), pencils (including coloured), sharpener, eraser, correction fluid/tape, ruler, and highlighters

Special items: non-programmable calculators approved for use in this examination

**Important note to candidates**

No other items may be taken into the examination room. It is your responsibility to ensure that you do not have any unauthorised material. If you have any unauthorised material with you, hand it to the supervisor before reading any further.

**Structure of this paper**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Section | Number of questions available | Number of questions to be answered | Suggested working time  (minutes) | Marks available | Percentage of examination |
| Section One  Research methods | 2 | 2 | 30 | 31 | 20 |
| Section Two  Short answer | 8 | 8 | 90 | 100 | 55 |
| Section Three  Extended answer | 2 | 2 | 60 | 52 | 25 |
|  |  |  |  | TOTAL | 100 |

**Instructions to candidates**

1. The rules for the conduct of the Western Australian external examinations are detailed in the *Year 11 Information Handbook 2021.* Sitting this examination implies that you agree to abide by these rules.
2. Write your answers in this Question/Answer booklet preferably using a blue/black pen. Do not use erasable or gel pens.
3. Answer the questions according to the following instructions.

Section One and Two: Write your answers in this Question/Answer booklet. Wherever possible, confine your answer to the line spaces provided.

Sections Three: Consists of two questions. You must answer both questions.

1. You must be careful to confine your answers to the specific questions asked and to follow any instructions that are specific to a particular question.
2. Supplementary pages for planning/continuing your answers to questions are provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.

Section One: Research Methods 20% (31 marks)

This section has two questions. Answer all questions. Write your answers in the spaces provided.

Supplementary pages for planning/continuing your answers to questions are provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e., give the page number.

Suggested working time: 30 minutes

Question 1 (11 marks)

Veronica and May were discussing whether star signs were accurate. Veronica decided she would ask a few friends what they thought. May however, decided she would research star signs, develop a hypothesis, then test her hypothesis and collect data.

1. Identify whether Veronica, May or both girls are using a scientific approach (2 marks)

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1. Following the correct order of steps in the scientific method, outline what May’s next **three** steps would be. (3 marks)

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1. Name **one** descriptive data collection method Veronica could use to find out what her friends think. (1 mark)

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1. Identify the **type** of data collection method used in question (c) (qualitative or quantitative). (1 mark)

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1. Explain the different uses of the two **types** of data collection methods. (4 marks)

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Question 2 (20 marks)

Tatiana, a tennis coach, wanted to find a method of improving court fitness for her 18-year-old tennis students. She decided to split her tennis players into two groups. The 23 boys were told to continually run to the net while trying to hit balls for one hour, while the 20 girls were told to stay stationary at the baseline and hit balls for one hour. The next day she organised a tournament where the boys would play against the girls to see who had better court fitness.

1. Suggest an operational hypothesis for this study. (4 marks)

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1. Identify the experimental and control groups. (2 marks)

Experimental group: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Control group:

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On the day of the tournament, three girls had to play twice to make sure all of the boys got to play a game. There was a total of 23 games played. The boys won the first 5 games, as well as games 9, 11, 13 and 18-23.

1. Create a table of the raw scores of games won for both groups. (4 marks)

**Table 1: Number of tennis wins according to training technique**

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(d) After gathering her results, Tatiana enlisted the help from her friend, a sports Psychologist. The friend suggested her study was not valid.

1. Define validity. (1 mark)

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Tatiana wanted to find out whether her results were statistically significant.

1. Describe what this term means. (2 marks)

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1. Suggest **two** sources of error regarding this experiment. Provide reasoning as to why these are problematic. (4 marks)

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1. Identify the sampling technique used in this experiment and outline **one** strength and **one** weakness of this sampling technique (3 marks)

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**End of Section One**

**Section Two: Short answer 55% (100 Marks)**

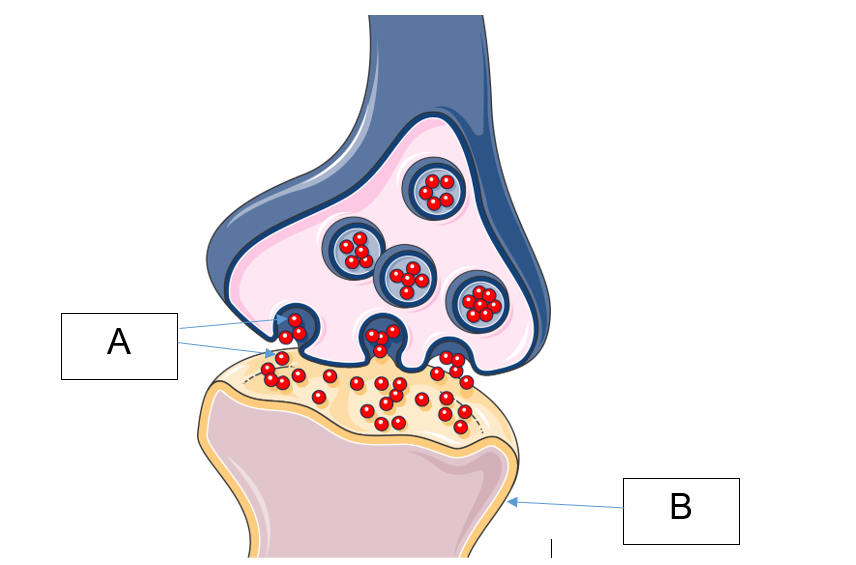
This section has eight questions. Answer all questions. Write your answers in the spaces provided.

Supplementary pages for planning/continuing your answers to questions are provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.

Suggested working time: 90 minutes

**Question 3 (15 marks)**

The below diagram represents the synapse between two neurons.



1. Use the above diagram to label features A and B. (2 marks)

A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. After age 50, the myelin sheath around certain neurons becomes more susceptible to damage, causing problems such as Alzheimer’s disease.
2. Explain why damage to the myelin sheath of neurons could cause decreased cognitive processing speed in Alzheimer’s patients, such as problem solving or decision-making. (3 marks)

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1. Suggest one brain scan that will be appropriate in examining both the function and structure of the brain suffering from Alzheimer’s disease. Explain how this scan works.

(3 marks)

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1. In the 19th century, Phineas Gage, a construction worker experienced an accident where a metal rod went through part of his skull. Surprisingly, Gage was conscious and was able to get up, walk and speak.

1. State the lobe of the brain the rod went through. (1 mark)

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1. Suggest one way Gage would have been affected if it were his occipital lobe that was damaged. (1 mark)

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1. Gage was said to have changed after the incident, having previously been well-mannered and a good foreman. Suggest why this change may have occurred. (1 mark)

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1. Andy has recently turned 18 and has been going to the bars most days to drink with her friends. As she was the designated driver this Friday she started to feel off and panicked as it seemed her drink may have been spiked. She started to have a racing heart, her vision was blurry and she felt jittery.
2. Identify what type of drug Andy may have been spiked with and justify your response using examples from the scenario. (2 marks)

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Andy has quit going out and drinking as she realized it impacted her mental health in a negative way.

1. With reference to a piece of research outline one way in which Andy could improve her mental health. (3 marks)

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**Question 4 (14 marks)**

1. Marty is a four-year-old boy who contracted Meniere’s disease, which changes the volume of fluid in your inner ear.
2. Identify the type of hearing loss Marty would likely be experiencing. (1 mark)

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1. Explain the effect of changing fluid in the inner ear on Marty’s balance. (3 marks)

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1. Humza is the owner at a local pizza shop. While he speaks English, he speaks with a strong accent, and often speaks fast. He asked his employee Jade, who was distracted by putting gelato into containers, to take the rubbish out. Jade did not take the rubbish out and Humza became agitated, speaking louder and more aggressively towards Jade.
2. Suggest **one** attribute of the receiver of the message, which may have led to miscommunication. (1 mark)

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1. Provide two suggestions as to how Humza could have been more effective in his communication. (2 marks)

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1. Jade felt very uncomfortable and upset with the way in which she was spoken to. Identify the most effective style of communication Jade could use as a response to Humza. (1 mark)

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1. Outline each step of this communication style. (3 marks)

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Step Two: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Step Three: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using steps identified in (iv), provide an example of what Jade could say. (3 marks)

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**Question 5 (10 marks)**

1. Lila and Ottis were celebrating their 2-year anniversary. They were reminiscing of how they met at their local university in Perth, studying the same humanities degree due to their interest in history.
2. Using the determinants of liking, suggest which **two** are the likely reason for Lila and Ottis getting together and apply each to the scenario. (4 marks)

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1. Ottis didn’t like buying presents for anniversaries, however, he knew Lila was going to buy him something, so he did the same to show he cared about her. Name the determinant of liking Ottis is demonstrating. (1 marks)

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1. Dexter Dunphy made some important observations about the structure and formation of adolescent groups.
2. In stage one, Dunphy suggested cliques were formed. List **three** attributes of a clique. (3 marks)

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1. Dunphy based his theory of adolescent group formation off of research he conducted in Sydney. Outline this piece of research. (3 marks)

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**Question 6 (8 marks)**

1. The Aldridge’s twins Doug and Holly were born on September 13, 2019.
2. Identify the type of twins they are and explain how you drew this conclusion. (2 marks)

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1. From a biological perspective, explain the difference between the two types of twins. (2 marks)

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1. Identify **one** reason as to why psychologists use twin and adoption studies. (1 mark)

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1. A study conducted by Bouchard, found the following correlations of monozygotic twins using a Weschler intelligence test. Twins reared apart had a correlation coefficient of 0.69 in IQ while twins reared together had a correlation coefficient of 0.88 for intelligence scores.
2. Summarise these findings. (2 marks)

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1. What can be concluded from these findings? (1 mark)

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**Question 7 (14 marks)**

1. Complete the following table of two of Freud’s Psychosexual stages. (2 marks)

|  |  |  |
| --- | --- | --- |
| **Stage** | **Description** | **Fixation** |
| **Anal** | During toilet training, child for the first time has some power over gaining approval from parents either by ‘holding it in’ or ‘letting it go’. |  |
| **Phallic** |  | Oedipus and Electra complex which if we do not resolve, will impact negatively on future relationships. |

1. Sarah told her clique of girlfriends one Monday that she was happy to be single and didn’t need a partner in her life to make her feel fulfilled. On the Friday of the same week, she told her friends that she dreamt she had met someone, and it made her feel elated. She started questioning what she had told them on the Monday
2. Mikala, one of Sarah’s friends thought Sarah was using a defence mechanism. Explain what a defence mechanism is and why Sarah might use one. (2 marks)

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1. Mikala wanted to use a projective test to help uncover Sarah’s unconscious thoughts. Outline **one** projective test she could use. (2 marks)

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1. Explain two weaknesses of using a projective test to describe personality.

(4 marks)

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1. Using Erikson’s theory of psychosocial development, Sarah (b) is experiencing a psychosocial dilemma.
2. Identify and describe the stage Sarah is in. (2 marks)

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1. Define the term ‘psycho-social dilemma’. (1 marks)

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1. Identify one characteristic of a stage theory. (1 mark)

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**Question 8 (14 marks)**

1. Frederick needed to provide a case study on a well-known politician to demonstrate his understanding of personality theory for a school assignment. He researched Mr Bump and deduced that the man was intelligent, a relentless reward seeker, narcissistic and often sexist. He also found examples of his behaviour which suggested he lacked empathy, didn’t care what other people thought of him and when he walked into a room, he commanded everybody’s attention. Mr Bump was also known to be happier when receiving attention from others and was prone to emotional outbursts if he did not get his own way.
2. Name and apply each of Eysenck’s supertraits to Mr Bump. (6 marks)

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1. Frederik believed in the humanistic theory of psychology and was curious as to why Mr Bump behaved the way he did. Explain how a humanistic psychologist would explain Mr Bump’s behaviour. (4 marks)

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1. Compare humanist and trait theory of personality. (4 marks)

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**Question 9 (15 marks)**

In 1968, Jane Elliot conducted what was to become a well-known social experiment, known as the blue-eyes / brown-eyes experiment. Within her experiment she divided her class of primary aged students into two groups, blue-eyes and brown-eyes. She initially told the brown-eyes they were smarter, faster and better than the blue-eyes and taught the class by comparing the blue-eyes’ behaviour negatively to the brown-eyes. Her experiment demonstrated that prejudice can be learnt, therefore unlearnt.

1. Define ‘self-concept’ (1 mark)

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1. In reference to the Social Identity Theory, suggest how Elliot’s experiment would have impacted the self-esteem of both groups. (4 marks)

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1. Referring to relevant research by Tajfel (1971), explain why brown-eyed students would try to boost their ‘in group’ and disadvantage the blue-eyed students as their ‘out-group’. (5 marks)

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1. Riley, a brown-eyed student in the class, noticed that all other brown-eyed students were bullying the blue-eyed students. He felt uncomfortable with what they were doing, however, decided to also bully the blue-eyed students to fit in with the group. Explain, referring to relevant research by Asch (1955), why Riley is changing his behaviour according to the group. (5 marks)

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**Question 10 (10 marks)**

1. Provide a definition of an attitude. (1 mark)

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1. Identify the three components of the Tripartite model. (3 marks)

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After the arrival of COVID, a local secondary school implemented a new rule that all students should wear masks. Belinda thought this was a good idea as she wanted everyone to stay safe. She wore her mask every day.

1. Applying the tri-component model of an attitude. (3 marks)

1. Identify the cognitive component:

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1. Identify the affective component:

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1. Identify the behaviour component:

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Adam was concerned about the increase in pollutants in the environment. He was fearful that later generations would not be able to enjoy the world as much as he had been able to. He decided to start recycling as a small step to do his bit to reduce pollution. He took his plastics to a container-for-change venue.

1. Applying the tri-component model of an attitude. (3 marks)

1. Identify the cognitive component:

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1. Identify the affective component:

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1. Identify the behaviour component:

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**End of Section Two**

**Section Three: Extended answer 20% (52 Marks)**

Section three consists of two questions. You must answer both questions.

Supplementary pages for planning/continuing your answers to questions are provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.

Suggested working time: 60 minutes.

Write your answer to Question 11 on pages 23-28. When you have answered this question, turn to page 29 for Question 12 and write your answer on pages 30-35.

**Question 11 (26 marks)**

Monique was applying for a deputy leadership role within her school. The application process asked her to demonstrate her emotional intelligence as this was deemed essential to the role. Compare Goleman’s theory of emotional intelligence with that of Gardner’s theory of Multiple Intelligence and suggest ways in which Monique can demonstrate her emotional intelligence within her application.

In your answer you should:

* Define emotional intelligence (1 mark)
* Describe Goleman’s five key elements of emotional intelligence (5 marks)
* Apply Goleman’s five key elements of emotional intelligence to Monique (5 marks)
* Compare Goleman’s and Gardner’s theories, including the two types of intelligence from Gardner’s Multiple Intelligence theory that most clearly resembles Goleman’s theory

(4 marks)

* Describe two limitations and two strengths of each theory (8 marks)
* Quality of response (3 marks)

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**Question 12 (26 marks)**

Meeshka and Mo underwent their first day of the new school year with their three children. One-year old Narla spent a day in day-care, Romy began pre-primary, and their older sibling Rolo, went into Year 8 at his local secondary school.

Narla screamed profusely when Meeshka and Mo left her at Daycare, not responding to any of the carers or other toddlers. This is very different to Romy, who confidently played with the other children at school and asked intelligent questions to his teacher. Rolo was also confident to be starting high school, being top of his class in primary school and an accomplished flute player.

Using your understanding of developmental psychology, explain the children’s social and cognitive development.

In your answer you should:

* Define developmental psychology (1 mark)
* Identify and briefly describe each child’s cognitive development stage (6 marks)
* Identify the cognitive goal of Narla’s stage of cognitive development and describe a test that can be used to observe Narla’s development. (3 marks)
* Use Erikson’s psychosocial stages of development to explain the behaviour of Narla, Romy and Rolo (9 marks)
* Compare Piaget and Erikson’s developmental theories. (4 marks)
* Quality of response (3 marks)

**End of questions**

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