**Psychology**

**Year 12 Unit 3 & 4**

 **ATAR course examination**

**Semester Two 2021**

**YEAR 12**

**Psychology**

**Unit 3 & 4**

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 | 3 | 3 | 30 | 38 | 20 |
| Section Two  Short answer | 7 | 7 | 90 | 102 | 55 |
| Section Three  Extended answer | 2 | 2 | 60 | 54 | 25 |
|  |  |  |  | TOTAL | 100 |

**Instructions to candidates**

1. The rules for the conduct of the Western Australian external examinations are detailed in the *Year 12 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% (38 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 (12 marks)

Eliana is completing her PhD at Australia University in Melbourne. She must plan, design and conduct psychological research based around her PhD thesis.

a) Identify and summarise one types of data collection methods that Eliana could undertake for her PhD study. (2 marks)

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b) Eliana would like to display her results in a quantitative form. Which data collection method would be best for this purpose. (1 mark)

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c) What is a control group and why is it important in an experiment? (2 marks)

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Question 1 (Continued)

d) Eliana chose the topic of her research to be on how school children develop self-control and what impact meditation has on this.

206 young people volunteered for Eliana’s study but only 50 people were accepted to be participant in the study. Explain, using possible examples related to the study, how this would have made the study design: (3 marks)

1. more reliable

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1. more valid

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1. more ethical

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1. Outline two research methods that Elaina could use when designing her research and explain why this method would create reliable or valid results.

(4 marks)

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Question 2 (9 marks)

Mrs Smart and her Psychology class wanted to test their theory that drinking different types of Kombucha would improve short term memory. The class collected participants from their own families; parents, grandparents, older siblings, uncles and aunties. The participants were aged between 18 and 85 years and were randomly allocated into three groups. Group 1 drank ginger-lemon kombucha once a day and Group 2 drank grapefruit kombucha once a day. Group 3 received no kombucha beyond their normal diet. At the end of a two-month trial, all the participants completed a memory test.

The following results were collected:

|  |  |
| --- | --- |
|  | **Mean Score on memory Test (out of 100)** |
| Group 1: Ginger Lemon | 79 |
| Group 2: Grapefruit | 57 |
| Group 3: No Kombucha | 65 |

A statistical test on the difference between the mean scores found that p>0.05.

a) Suggest an operational hypothesis that the class would have developed for this study? (4 marks)

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b) State the conclusions that the researchers can draw from their results. (3 marks)

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Question 2 (Continued)

c) Identify two possible extraneous variables in the conduction of the experiment. (2 marks)

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Question 3 (17 marks)

Ramona and her team were interested in the relationship between self-esteem, depression scores and social support in LGBTQIA+ teenagers. They collected the following data.

Higher LGBTQIA+ scores indicate a stronger sense of community

Higher self-esteem scores indicate positive levels of self-esteem

Higher depression scores indicate stronger symptoms of depression.

*Table 1. To show how LGBTQIA+ inclusion modulates with self-esteem and depression.*

|  |  |  |  |
| --- | --- | --- | --- |
| School groups | Schools LGBTQIA+ community and inclusivity score | Students’ average self-esteem scores | Students’ average depression score |
| 1 | 0 < 30 | 13 | 72 |
| 2 | 31 < 50 | 20 | 68 |
| 3 | 51< 70 | 34 | 50 |
| 4 | 70 < 90 | 56 | 30 |

1. Plot the results for this study on a graph below. (5 marks)

A screen shot of a cage

Description automatically generated

1. Describe two trends in the data. (2 marks)

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Ramona then wanted to create a quasi-experiment from the above non-experimental data and collected 500 participants through volunteer sampling from schools across Australia.

1. Outline three aspects of a potential method for the above research that would create reliable for valid results for Ramona. (6 marks)

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1. Outline two reasons why Ramona would have chosen volunteer sampling. (2 marks)

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Question 3 (Continued)

Ramona and her team wanted to find out whether the results were statistically significant.

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

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**End of Section One**

**Section Two: Short Answer 55% (102 Marks)**

This section has seven 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 (20 marks)

1. The nervous system is made up of **two** main parts. Name these **two** parts. (2 marks)

Part one: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part two: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Blake was driving his car on the freeway when suddenly he noticed a dog running across the highway. He slammed on the breaks to avoid hitting the dog. Describe how each of the below nervous systems coordinates their responses to allow Blake to avoid the dog.
2. The somatic nervous system. (3 marks)

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1. The autonomic nervous system. (3 marks)

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Question 3 (Continued)

When Blake gets home, he is fairly shaken up, he goes to make a sausage sandwich, as he does he accidently burns himself on the stove in his absent mindedness. Blake quickly removes his hand from the hob and realises what he has burnt himself.

1. Identify the stages of the reflex arc that have allowed Blake to move so quickly.

(5 marks)

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c) Blake is in a car accident and as a result of his injuries is taken to hospital where he is given morphine to ease his pain and relax his body. After months of rehabilitation, Blake’s doctors stop prescribing his medications, but Blake is now addicted. He begins to illegally take the drug Heroin, which acts in the same way as morphine, as a way of dealing with his ongoing pain.

i. Identify what type of psychoactive drug Heroin is and explain what this drug is doing to Blake’s nervous system? (3 marks)

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Blake is later introduced to another drug called Cocaine. Cocaine is designed to mimic a naturally occurring neurotransmitter as it increases feelings of euphoria and motivation.

ii. Name the neurotransmitter this drug is mimicking? (1 mark)

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Question 3 (Continued)

iii. Explain how the neurotransmitter identified in part ii is transported through the nervous system? (3 marks)

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Question 4 (18 marks)

1. Name the two slave systems developed by Baddeley and Hitch (1974) in their model of working memory. (2 marks)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Jamima is attempting to do her hair in a funky braid and is watching a tutorial on YouTube as she follows the steps on her own hair. She is getting ready for a work event and as she braids her hair, she is also trying to rehearse her speech for the event that she is making. Apply the working memory model explain how Jamima is able to complete both tasks at once. (4 marks)

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1. For each of the following scenarios, name the type of long-term memory (LTM) that the information would be retrieved from. (3 marks)
2. Tim was thinking of the time he tripped over in front of class.

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1. The process of typing up an essay from notes onto your computer.

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1. Answering a question in an examination.

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Question 4 (Continued)

1. Amari is last minute cramming for his Chemistry examination. He has been reciting the periodic table over and over but he cannot remember past past Neon (number 10).

Explain why Amari is having trouble getting past the 10th element. (3 marks)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The working memory model was created after the multi-store model. Name one reason as to why Baddeley and Hitch (1974) created this model of memory. (1 mark)

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1. Describe how researchers are able to tell there are different memory store for short-term memory and long-term memory, making reference to evidence in your response

(2 mark)

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Question 5 (14 marks)

a) Define the term attachment. (2 marks)

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b) Sally Ainsworth conducted experimental research to measure the quality of attachment in infants.

1. Outline the procedure of this experiment. (4 marks)

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1. Compare the behaviours of two attachment types identified below. (2 marks)

|  |  |  |
| --- | --- | --- |
|  | Insecure avoidant | Insecure anxious |
| Reunion behaviour |  |  |

Question 5 (Continued)

c) Explain the reason as to why Ainsworth believed there were different attachment types. (3 mark)

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d)Shivani has just completed her maternity leave period and must go back to work to keep her position. Her baby, Tiarnee, who is 6 months old, will be going into childcare 5 days a week. According to Bowlby’s theory, explain what he believes will happen to Tiarnee because Shivani is going back to work. (3 marks)

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Question 6 (15 marks)

1. Tannen was a researcher interested in how gender impacts communication styles.
2. Define the term communication style and give one example. (2 marks)

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1. Identify what circumstances report talk is useful for. (1 mark)

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1. Lord Grey High School is a public school which sits in a very mixed socio-economic location in London. A few students are playing football at recess when a fight breaks out. Once the students are separated. Tim was trying to explain that James had been calling him names for months, in multiple classes, and this was the only reason he punches James.
2. Outline how Tim would say this using elaborative code. (1 mark)

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1. Outline how Tim would say this using restrictive code. (1 mark)

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1. William Labov studied African American Vernacular English and contrasted the conclusions of Bernstein. Identify Labov’s main finding. (2 marks)

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Question 6 (Continued)

Persuasive communication is seen in all political advertising trying to convince voters to vote for one party over another. Chad is running for class president. His opponent, Raquel, has started handing out flyers in the lead up to the student class voting in the election. Chad decides to create two different flyers, both shown below.

c) Using your knowledge of persuasive communication, identify and explain **one** feature Chad has used in each flyer to persuade students to vote for him. (4 marks)

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Question 6 (Continued)

1. Chad’s flyers do not seem to be successful in helping his campaign, mostly because the students don’t read them. Create **two** ways Chad could improve his reach to his audience better. (4 marks)

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Question 7 (11 marks)

1. Identify the stage of Kohlberg’s theory of moral development that each of the below statements refer to.
2. Some individuals never reach this stage of moral development. (1 mark)

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1. Obeying Society’s rules takes precedence when making decisions about morality. (1 mark)

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1. Egocentric thinking in which the perspective of authority is confused with one’s own perspective. (1 mark)

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1. Identify two characteristics of a stage theory. (2 marks)

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1. Evaluate Kohlberg’s theory of moral development. (2 marks)

|  |  |
| --- | --- |
| Strength | Limitations |
|  |  |

Question 7 (continued)

1. Piaget created a task that tests out a child’s ability to take the perspective of others. Identify and describe this task. (2 marks)

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1. With reference to the task in part (d) explain this task has received criticism.

(2 marks)

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**Question 8 (16 marks)**

Anfernee has just changed high schools and wants to start fresh. At his old school he was a bit of a wall flower, he didn’t go out of his way to get involved in any extracurricular activities, never asked questions in class and didn’t socialise much outside of school with his classmates. Because of this he was lonely. When he starts at his new school, he goes out of his way to change his behaviour, he tries out for the football team, joins the media club and puts his hand up in class to ask questions in the hope he will make new friends more easily.

a) Identify and define one trait Anfernee’s classmates would have assigned to him at his old school. (2 marks)

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b) Describe one strength and one limitation of trait theory of personality. (2 marks)

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Question 8 (Continued)

c) Outline how the below theories would explain Anfernee’s behaviour.

i. Social-cognitive theory. (3 marks)

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ii. Humanistic theory. (3 marks)

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d) Describe how a social-cognitive theorist would describe Anfernee’s locus of control. (1 mark)

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e)Outline three of Mischels 5 cognitive competencies that impact personality (3 marks)

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Question 8 (Continued)

f) Contrast Maslow’s and Rogers humanistic theories of personality. (2 marks)

|  |  |
| --- | --- |
| **Maslow** | **Rogers** |
|  |  |

**Question 9 (21 marks)**

David considered himself a regular guy. When the political party he supports, the Patriot Party, loses the election he starts seeing posts online from people who support the Patriots claiming that the election result was rigged by a foreign power so they could control the politicians in the other party that won, the Nationalist Party. David is concerned and sends a private message to a few people claiming this and asks them to provide evidence. They point him to a new online community they say only has like-minded people. After a month of being connected to this new online community, David joins in a protest organised by the group which leads to a riot that injures many and damages Parliament House.

a) Define the term group polarisation. (1 mark)

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b) Outline one piece of research that demonstrates group polarisation (3 marks)

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David is arrested at the protest and when questioned by police he makes a statement saying he would never normally intentionally hurt anyone but he wanted to be accepted by the group, so he went along with the violence.

c) Using psychological terminology explain how David’s behaviour was influences by the group (4 marks)

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**Question 9 (Continued)**

d) Outline one piece of research that demonstrates the psychological concept that influenced David in part (c). (5 marks)

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Another protestor, Evangeline, is recognised by her mother on the news coverage. Her mother is concerned as her being at the riot is very out of character. When she questions her, Evangeline says that she went there to meet a friend and when the riot started, two men dressed in army clothing with guns told her she had to move with the group. Evangeline states that they were intimidating so she went along with the group until she couldn’t see the two men anymore.

1. Using psychological terminology explain why Evangeline behaved this way.

(4 marks)

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**Question 9 (Continued)**

f) Outline one piece of research that demonstrates the psychological concept that influenced David in part (e). (5 marks)

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**Question 10 (11 marks)**

a) Define the term sense of community. (1 mark)

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1. Lee High School is a struggling secondary college, a lot of local families are moving away from the area so they can enrol their children into better schools. The school often has fights and the behaviour of students is getting worse in-classes and the principal is tasked with creating a greater sense of community amongst students. Using the following features of sense of community describe how the principal can increase the sense of community at Lee High School.

i. Membership. (2 marks)

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ii. Influence. (2 marks)

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iii. Integration and fulfilment of needs. (2 marks)

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c) Define the term trauma. (1 mark)

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Question 10 (Continued)

d) The United Kingdom’s health system, known as the NHS, is widely acknowledged as one of the best health care systems in the world. In 2020, in support of their tireless work, the community started the ‘clap for our carers’ movement. This involved everyone in the UK going to their front doors or windows at 8pm each Thursday night and clapping to show their support for the NHS workers.

Name and explain the criteria of McMillan and Chavis’ sense of community that the above real-world scenario demonstrates.(3 marks)

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**End of Section Two**

Section Three: Extended Answer 25% (53 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 10 on pages 25-30. When you have answered this question, turn to page 31 for Question 11 and write your answer on pages 32-37.

**Question 11 (27 marks)**

Rinku is an Indian athlete who was scouted by an American sports agent to play baseball in America, even though he had not played baseball before. Rinku was social and talkative to his new agent and colleagues, he was very excited to go to the United States as he saw it as a huge opportunity to become an international athlete.

After training for 9 months, Rinku had his first try-out for professional teams. The try-out is a complete disaster, as he was very nervous, pitching without speed or control and was extremely embarrassing. Initially, Rinku could not bear the humiliation, every time he saw a baseball pitch or baseball being played on the TV he experienced flashbacks of the try-outs, feeling intense shame with heart palpitations and sweat. He believed he was not worthy to play for a baseball team and wanted to go home and never play the sport again. After a couple of weeks of moping Rinku’s coach, ordered him back to training and to face his fears. Following the orders of his coach he woke up early and did extra strength and cardio sessions. He realised that he needs to let go of his concern of what others think of him and focus on his enjoyment of the game. His coach and friends recommended trying again for another try-out in 6 months, so he trained longer and with a renewed sense of determination, beginning to feel a spiritual connection to the game.

Explain the psychological processes that influenced Rinku’s behaviour during and after the try-outs. In your answer, you should discuss:

* Explain how the presence of others can impact performance applying this to Rinku
* The impact of significant events on individuals and use this to explain Rinku’s response
* Refer to psychological evidence and understanding throughout your response, including an outline and evaluation of ONE relevant piece of evidence
* Quality of response

**Question number: \_\_\_\_\_\_\_\_\_\_\_**

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**Question 12 (27 marks)**

The Southern Wombats Football Club have been embroiled in controversary for the third time in as many years with several players behaving inappropriately at a birthday party. The AFL fines the club $50,000 and issues it a directive to prevent this behaviour in the future or else the fine will be larger.

The club president orders a review of the club and all its playing and coaching group.

The external reviewer compiled a report and found the following:

* The leadership group (captain, vice captains) were admired and held in high esteem by the other players.
* Members of the leadership group were listed as some of the players who regularly misbehaved on and off the field.
* The club coaches were found to have repetitively ignored bad behaviour and, on some occasions, it was discovered they had actually rewarded some players for off the ball acts that injured the oppositions best players.
* The club hierarchy, president, CEO, CFO and board members, were all found to be negligent in their duties as they were not aware of the toxic culture of bad behaviour occurring at the club as on the field the team was winning.

After the review the club hires a firm that specialises in behaviour modification to help create strategies to address and improve all the above issues.

In your answer, refer to the above scenario by creating a well-constructed response, addressing the following;

* Outline the process of Observational Learning.
* Apply Observational Learning theory to the scenario.
* Identify and explain **three** techniques for modifying behaviour.
* Choose **two** behaviour modification techniques and outline how

they could be used to change the behaviour of the Southern Wombats players.

* Quality of your response.

**End of questions**

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Additional working space

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A screen shot of a cage

Description automatically generated