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**PSYCHOLOGY**

**ATAR 3 and 4**

**Question/Answer Booklet**

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

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

Time allowed for this paper

Reading/planning time before commencing work: ten minutes

Working time for paper: three hours

Material 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 the WACE examinations

Important note to candidates

No other materials may be taken into the examination room. It is your responsibility to ensure that you do not have any unauthorised notes or other items of a non-personal nature in the examination room. 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 attempted | Suggested working time  (minutes) | Marks | Percentage of exam |
| Section One:  Research methods | 3 | 3 | 30 | 30 | 20 |
| Section Two:  Short answer | 9 | 9 | 90 | 92 | 55 |
| Section Three:  Extended answer | 2 | 2 | 60 | 58 | 25 |
|  |  |  | Total | 181 | 100 |

# Instructions to candidates

1. The rules for the conduct of Western Australian external examinations are detailed in the *Year 12 Information Handbook 2018.* Sitting this examination implies that you agree to abide by these rules.
2. Write your answers in this Question/Answer Booklet.
3. You must be careful to confine your responses to the specific questions asked and to follow any instructions that are specific to a particular question.

1. Spare pages are included at the end of this booklet. They can be used for planning your responses and/or as additional space if required to continue an answer.

* Planning: If you use the spare pages for planning, indicate this clearly at the top of the page.
* Continuing an answer: If you need to use the space to continue an answer, indicate in the original answer space where the answer is continued, i.e. give the page number. Fill in the number of the question that you are continuing to answer at the top of the page.

**Section One: Research Methods 20% (30 Marks)**

This section has **three (3)** questions. Answer **ALL** questions. Write your answers in the spaces provided.

Spare pages are included at the end of this booklet. They can be used for planning your responses and/or as additional space if required to continue an answer.

* Planning: If you use the spare pages for planning, indicate this clearly at the top of the page.
* Continuing an answer: If you need to use the space to continue an answer, indicate in the original answer space where the answer is continued, i.e. give the page number. Fill in the number of the question that you are continuing to answer at the top of the page.

Suggested working time: 30 minutes.

**Question 1 (8 marks)**

Mrs Tawney was a brunette and was interested in finding out if the old adage “Blondes have more fun” was true. She surveyed 300 women between the ages of 20 to 50, 100 blondes, 100 brunettes and 100 redheads.

The results of the survey were as follows:

**Table 1: Results of survey comparing hair colour and fun perception.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Percentage of week identified as Fun** | **Percentage of week identified as not fun** | **Percentage of week identified as other** |
| **Blondes** | 30% | 5% | 65% |
| **Brunettes** | 25% | 30% | 45% |
| **Redheads** | 45% | 20% | 35% |

1. Identify if Mrs Tawney’s research is experimental or non-experimental. Explain your answer. (2 marks)

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1. Identify two (2) other types of data collection using a self-report method Mrs Tawney could have used instead of a survey. (2 marks)

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1. Name one (1) disadvantage of using a survey in psychological research. (1 mark)

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1. Name one (1) advantage of using a survey in psychological research. (1 mark)

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1. Based on the results, Mrs Tawney decides that she will dye her hair Strawberry Blonde. Explain why Mrs Tawney came to this conclusion and why she should conduct further research before making her decision. (2 marks)

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**Question 2 (13 marks)**

A psychologist was interested in studying the relationship between water intake and intelligence. To research this the investigator chose a sample of 40 university students who had replied to an advertisement in the university newsletter. The students were separated into four even groups, with group A consuming 3 litres of water a day for 1 month, group B consuming 2.5 litres of water a day for 1 month, group C consuming 2 litres of water a day for 1 month and group D consuming 1.5 litres of water a day for one month. They then sat a standardized IQ test at the end of the month. The probability for the investigation was set at 0.05.

**Table 2**: **Results of investigation into effects of water intake on intelligence.**

|  |  |  |
| --- | --- | --- |
| **Group** | **Average amount of water consumed per day** | **Average Intelligence Quotient** |
| A | 3 litres | 125 |
| B | 2.5 litres | 105 |
| C | 2 litres | 110 |
| D | 1.5 litres | 105 |

Probability in the investigation was calculated at p ≥ 0.07.

1. Write a hypothesis for this study. (2 marks)

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1. Name the independent variable. (1 mark)

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1. Name the dependent variable. (1 mark)

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1. Draw a graph below representing results from Table 2: (5 marks)

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1. Identify the sampling method used by the psychologist and suggest one (1) limitation of this method. (2 marks)

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1. What conclusions can be drawn from the study? Explain your answer. (2 marks)

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**Question 3 (9 marks)**

A nutritionist, Dr Roberts, was investigating memory and iron intake in teenagers as he believed iron rich foods such as fish can improve memory. He gave half his participants a sugar pill, telling them it was an iron pill, and the other half he gave actual iron pills.

1. What is the term given to the sugar pill in the above experimental research design? (1 mark)

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1. Dr Roberts actually found that teenagers taking the sugar pill scored quite well in their memory tests as they seemed to focus very well on the memory testing. Name this occurrence. (1 mark)

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1. Explain the difference between an experimental group and a control group. (2 marks)

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1. Dr Roberts was very keen to prove that iron did improve memory and so he unintentionally focused more time on the teenagers who were taking the iron tablets and unintentionally gave them more verbal cues.
   1. Name the above occurence in research. (1 mark)

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* 1. How could the research design be altered to overcome the above? Name and explain the procedure. (3 marks)

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1. Dr Roberts’ test was later found to be valid. In psychological testing what does this mean? (1 mark)

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**End of Section One**

**Section Two: Short answer 55% (92 Marks)**

This section has **nine (9)** questions. Answer **ALL** questions. Write your answers in the spaces provided.

Spare pages are included at the end of this booklet. They can be used for planning your responses and/or as additional space if required to continue an answer.

* Planning: If you use the spare pages for planning, indicate this clearly at the top of the page.
* Continuing an answer: If you need to use the space to continue an answer, indicate in the original answer space where the answer is continued, i.e. give the page number. Fill in the number of the question that you are continuing to answer at the top of the page.

Suggested working time: 90 minutes.

**Question 4 (11 marks)**

1. Complete the labels on the following diagram about the structure of the nervous system. (7 marks)

**Nervous System**

ii.

iii.

iv.

**Autonomic Nervous System**

v.

vi.

vii.

1. Identify the function of the autonomic nervous system. (1 mark)

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1. Ellen enjoys scaring people on her TV show. Many celebrities have been suddenly frightened by Ellen and react in different ways. Taylor Swift screamed, jumped away and fell to the floor.
   1. Name the branch of the nervous system that is working when Ellen scares Taylor. (1 mark)

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* 1. Apply your understanding of the fight or flight response by identifying two (2) physiological preparations Taylor’s body would have undergone when presented with the danger. (2 marks)

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**Question 5 (14 marks)**

Quentin and Justine live next door to 7-year-old Benji, who has always appeared to them to be polite and kind. One day, when sitting in their lounge room, they notice Benji outside in the street and they watch him throw a stick at a neighbourhood cat.

Quentin dismissed Benji’s behaviour, believing that it might have been a one off and maybe the cat had scratched Benji. Quentin still thinks Benji is a kind child, although now believes he may be a little mischievous at times.

Justine on the other hand saw the incident and was shocked at Benji’s behaviour. She is now very careful with her small dog when he is near and no longer thinks Benji is a kind child.

1. Identify and explain the two (2) Piagetian concepts Quentin and Justine have used when interpreting this new information. (4 marks)

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1. Benji’s mother is a teacher and has been meticulously recording Benji’s cognitive development as he grows. Identify the Piagetian concepts demonstrated by Benji and for each identify which stage of Piaget’s theory Benji was in at the time in the following scenarios.
2. Benji tried to look over his high chair table when his mother bent down and out of sight to pick up something on the floor. (2 marks)

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1. Benji had some homework from his teacher that his mum had to help him with. His mum was reading out the problems to Benji who was trying to solve them. “If Phoebe is taller than Rachel and Rachel is taller than Monica, who is the shortest?” Benji thought about it for 10 seconds and then answered “Monica”. (2 marks)

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1. Benji had some friends over and his mum was making them some chocolate milkshakes for afternoon tea. She only had two glasses that were the same size and had to use a shorter fatter glass for the third milkshake. She poured them out in front of the children so that they could see they had the same amount of milkshake each. Benji’s two friends quickly took the taller thinner glasses thinking they had more in them but Benji happily took the shorter, fatter glass telling his friends they were all the same anyway. (2 marks)

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1. Benji’s dad took him to the shops to buy his mum some flowers and chocolates for Mother’s Day. Benji wanted the yellow flowers even though his dad said his mum liked the red ones and he picked a kinder surprise as the chocolate despite his dad trying to get him to pick his mum’s favourite Ferrero Rocher. (2 marks)

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1. Outline the major contribution of Piaget’s theory to the education of young children. (2 marks)

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**Question 6 (11 marks)**

1. Outline the difference between conformity and obedience. (2 marks)

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1. Identify and define the concept Triplett tested after he observed improvement in cyclists times when racing together compared to racing alone. (2 marks)

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1. Roger was very good at his times tables and excelled at school in maths tests. However, when his class competed in quick draw times tables he would always lose because he became flustered having to quickly remember in front of the whole class. Explain what is happening in Roger’s situation using psychological ideas. (3 marks)

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1. Explain the difference between internal and external attributions. Provide an example of both to support your answer. (4 marks)

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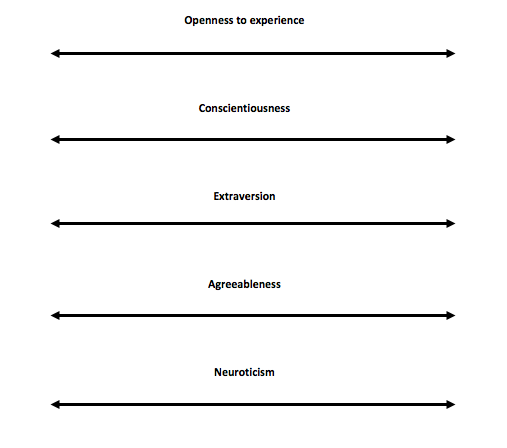
**Question 7 (12 marks)**

1. Define the term trait. (1 mark)

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Jack and Max are identical twins who are always compared to each other. Jack hates it when people compare them but Max loves the fact that he is an identical twin and is much more comfortable in his own skin than Jack who can at times be a little insecure. In primary school they were in different classes at the same school and Max would convince Jack to trick the teachers by swapping classes sometimes. Jack would always give in and tell the teacher quickly. Max excels on the sporting field and always has lots of energy, he loves being the centre of attention. Jack is much shyer than Max and prefers to spend his afternoons rigorously completing his homework and helping his mum out at home with their younger siblings. Max always throws himself into new challenges as he is confident he can excel in whatever he tries. Jack was chosen by his teachers to become a school prefect because of his good-natured demeanour. Max was the school sports captain because of his ability to be ruthless and critical but also calm in stressful situations.

1. Using the letter ‘M’ for Max and ‘J’ for Jack identify where the boys’ personality traits would fall on the below continuums. (10 marks)

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High

Low

1. Name the theorist/s who created the above personality theory. (1 mark)

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**Question 8 (6 marks)**

1. The influence of social media has increased the influence people and groups have over others. A negative tweet about Snap Chat in early 2018 from Kylie Jenner had the effect of wiping millions of dollars off the value of the company.

Name the phenomenon that occurs when a group of people come together and the enhancement of similar attitudes are strengthened. (1 mark)

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1. Britney has just moved schools and wants to fit in and make friends. She notices on her first day a group of girls talking about Justin Bieber and how they all follow Selena Gomez on Instagram. When Britney gets home she follows Selena on Instagram and listens to Justin’s latest album so that tomorrow she can talk about them both and make friends. Name and explain a psychological concept that describes what has occurred in Britney’s situation. (2 marks)

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1. Michael wins free tickets to a soccer match and despite not being a fan he decides to go to see what it’s like. He has tickets in the main supporter’s area and he watches what everyone around him is doing. He chants along with the cheers and boos when the others boo. When a goal is scored he watches the other supporters throw their drinks up in the air and despite just paying $10 for his drink he does the same as those in his immediate surroundings. Name and explain a psychological concept that describes what has occurred in Michael’s situation. (2 marks)

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1. Stanley Milgram was interested in the reasons behind the Holocaust in WWII and wished to investigate how it could occur and to investigate whether it could ever occur again. What phenomenon did Milgram discover that many Nazi officers claimed to be the reason for their actions in the Holocaust? (1 mark)

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**Question 9 (7 marks)**

1. Define the term ‘sensory memory’. (1 mark)

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1. Samuel is sitting his Chemistry Mock Examination. During the examination he is required to remember information in different ways.
   * 1. Identify and explain how Samuel’s memory is measured when answering multiple choice questions in the exam. (2 marks)

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* + 1. Identify and explain how Samuel’s memory is measured when answering extended answers in the exam. (2 marks)

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* + 1. Samuel fails the short answer section of the exam as he had particular trouble remembering what he was taught about the periodic table. His teacher tutors him before his final examinations and after only a quick revision on the periodic table, Samuel says he can now remember everything that he was originally taught. Identify and explain what has occurred in this situation. (2 marks)

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**Question 10 (12 marks)**

1. Define the term morality. (1 mark)

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1. Kohlberg’s theory of moral development has three levels that identify how moral reasoning is used when faced with the Heinz dilemma. Name and define the reasoning found in all three (3) levels of Kohlberg’s theory. (6 marks)

Level 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Level 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Level 3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Define the term “sense of identity”. (1 mark)

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1. Describe how Erikson’s stage theory of identity aims to explain how a person’s identity and enduring personality characteristics are formed across a lifespan. (4 marks)

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**Question 11 (11 marks)**

“The Forbidden Experiment” refers to the concept of language deprivation experiments which would involve isolating infants from the normal use of spoken or signed language in an attempt to discover the origin of human language. They are considered “forbidden” as they would require exceptional deprivation of human contact and therefore are not ethically acceptable. Therefore theories speculating whether human language is developed due to nature or nurture are not conclusive.

1. Identify and **explain** **one** of the two major theories of language development.

(6 marks)

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1. **Identify** the theorist who coined the term “genderlect” and **explain** the theory outlining gender differences in communication style. (5 marks)

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**Question 12 (8 marks)**

Mount Agung in Bali is erupting again. The Smiths are currently on holiday in Bali and cannot get home due to the eruption. The Frasers are at Perth airport and have been told their flight has been cancelled due to the eruption, so they cannot go on their holiday. The Smiths did not buy insurance and were shocked when the volcano erupted. They will have to pay for further accommodation and new flights once the airlines begin flying again. The Frasers made sure they purchased volcano insurance when booking their holiday and they will be reimbursed the cost of their cancelled flights and accommodation but they will not be able to go to Bali on their holiday as Mr Fraser must be back at work by the time the airlines recommence flights to Bali.

1. Explain how the following characteristics of this event would contribute to each family’s stress. (6 marks)
2. Predictability:

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1. Controllability:

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1. Experience threat or loss:

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1. World events such as earthquakes, floods and fires can have devastating effects on communities. Name one (1) positive response and one (1) negative response that an individual can have due to the impact of such an event. (2 marks)

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**End of Section Two**

**Section Three: Extended answer 25% (58 Marks)**

This section contains **two (2)** questions. You must answer **BOTH** questions.

Pages are included at the end of Question 13 for planning and writing your answers.

* 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 number of the question you are answering.
* You should refer to relevant psychological concepts, theories and research in your answer.

Suggested working time: 60 minutes.

**Question 13 (28 marks)**

Albert Bandura has been described as the greatest living psychologist and one of the most influential psychologists of all time. He has contributed to many areas of psychology including influential theories in the fields of Cognition, Developmental Psychology and Personality. Identify and outline his three major theories from the above psychological areas.

In your answer you should;

* Name and outline theory in relation to Cognition.
* Name and outline theory in relation to Personality.
* Name and outline theory in relation to Developmental Psychology.
* Identify any similarities and differences between the theories.

**Question 14 (30 marks)**

Jonathan belonged to the Parkville Panthers football team. They had a huge game coming up on the weekend against the Riverstone Ravens. They decided to do a practice every day after school the week before the big game. The night before the game the captain wanted to go to the Ravens home ground and decorate the stands in the Panthers colours. Jonathan knew they could get into a lot of trouble by doing this, but the captain and the senior players were doing it so he went. Jonathan decided that decorating the other team’s stadium would give his team the team spirit they deserved.

The next day Jonathan’s team arrived in their blue and gold uniforms, paint on their faces, and won the big game against the Riverstone Ravens.

Explain, using empirical evidence, how conformity, cognitive dissonance and sense of community were demonstrated in the above scenario.

In your answer you should;

* Name the theorist/s and outline theory in relation to conformity.
* Name the theorist and outline theory in relation to cognitive dissonance.
* Name the theorists and outline theory in relation to sense of community.

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

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

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**Additional working space**

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