

**ATAR course examination**

**Semester Two 2020**

**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 | 2 | 2 | 30 | 35 | 20 |
| Section Two  Short answer | 8 | 8 | 90 | 108 | 55 |
| Section Three  Extended answer | 2 | 2 | 60 | 60 | 25 |
|  |  |  | TOTAL | 203 | 100 |

**Instructions to candidates**

1. The rules for the conduct of the Western Australian external examinations are detailed in the *Year 12 Information Handbook 2020.* 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% (35 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 (19 marks)**

Professor Thunberg wanted to test her theory that vegetarians are more intelligent than people who eat meat. She posted a link on twitter to a survey asking questions about eating habits followed by an online intelligence test. She hoped that by conducting her research in this way she could recruit a large and diverse sample from around the world.

After one month she stopped the research when she had collected data from 100,000 people globally. However, her sample was highly skewed towards people who are vegetarians. Her results were as follows:

**Table 1: Results of experiment comparing IQ and meat consumption**

|  |  |
| --- | --- |
|  | **Average IQ as measured by online intelligence test** |
| Vegetarians (80,679) | 126 |
| Meat eaters (19,321) | 105 |

Professor Thunberg used these results to conclude that eating a vegetarian diet makes people more intelligent.

1. Identify what type of research Professor Thunberg is conducting. Explain your answer.

(2 marks)

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(b) Explain the difference between sample and population data. (2 marks)

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(c) Define the term ‘behavioural variable’. (1 marks)

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1. What type of research are behavioural variables used in? (1 mark)

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1. How are behavioural variables best displayed in graph form? (1 mark)

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1. Explain the difference between qualitative and quantitative methods of data collection.

(2 marks)

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1. Explain the difference between test-retest reliability and interrater reliability (1 mark)

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1. Complete the table to identify **two** sources of error in Professor Thunberg’s research design and state **one** way of reducing each. (4 marks)

|  |  |
| --- | --- |
| **Source of Error** | **Way of Reducing Error** |
|  |  |
|  |  |

1. Is the conclusion Professor Thunberg drew from the data correct? Explain your answer.

(2 marks)

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(h) Professor Thunberg used cross-sectional research design to collect her data.

i. Explain the term cross-sectional research. (1 mark)

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ii. Describe what the term “cohort effect” means. (1 mark)

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1. State one limitation of longitudinal research. (1 mark)

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**Question 2 (16 marks)**

Ms. Evergreen was concerned her year 12 English classes were feeling a little stressed at school and she wanted to investigate the effect of indoor plants on the mood of high school students in class. In one of her year 12 classrooms she placed 10 indoor plants and in the other year 12 classroom she made sure no plants were present. At the start of Term Two Ms. Evergreen had all 40 of her year 12 students at the school fill out a closed ended questionnaire composed of 20 questions about mood with a scale ranging from 1 to 10 for each (1 being relaxed and 10 being extremely stressed). She had the students complete the same questions at the end of each week for the entire term. She averaged the rating of the 20 questions for each student and then averaged the class rating to one number out of 10. The results are displayed below:

Table 1.1: Results of experiment measuring if plants affect mood rating of stress.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Class 1 (Plants present)** | **Class 2 (Plants absent)** |
| **Mood Rating (1-10)** | Week 1 | 8 | 8 |
| Week 2 | 7 | 8 |
| Week 3 | 6 | 7 |
| Week 4 | 5 | 7 |
| Week 5 | 6 | 8 |
| Week 6 | 9 | 9 |
| Week 7 | 3 | 6 |
| Week 8 | 3 | 6 |
| Week 9 | 3 | 5 |
| Week 10 | 1 | 1 |

1. Identify the operationalised dependent variable. (1 mark)

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1. Write an operationalised hypothesis for this study. (4 marks)

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1. Name and calculate one measure of central tendency for each class. (3 marks)

|  |  |  |
| --- | --- | --- |
| **Measure of central tendency** | **Class 1** | **Class 2** |
|  |  |  |

1. Which measure of central tendency would be the most appropriate to use to compare the results of the two classes? Explain your answer. (2 marks)

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1. What extraneous variables could account for the changes in scores at week 6 and week 10? (2 marks)

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1. Outline how Ms. Evergreen could have correctly followed **two** ethical considerations. (2 marks)

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1. Ms. Evergreen also wanted to use a measure of dispersion to interpret her results
   * 1. Identify a measure of dispersion that Ms. Evergreen could use. (1 mark)

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ii. What would the measure of dispersion named in part (i) tell Ms. Evergreen? (1 mark)

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**End of Section One**

**Section Two: Short answer 55% (108 Marks)**

This section has **8** 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.

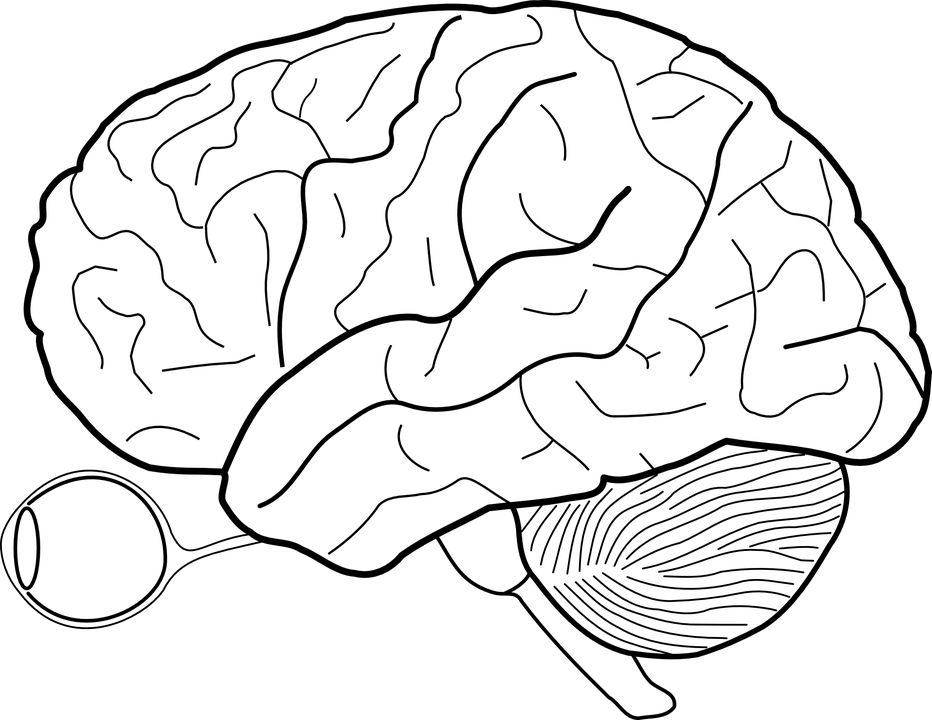
**Question 3 (11 marks)**

A

C

B

D



1. Identify the structures labelled A, B, C and D on Diagram 1 above. (4 marks)

|  |  |
| --- | --- |
| A |  |
| B |  |
| C |  |
| D |  |

1. Name and describe the area of the brain that would have to be damaged to affect speech production. (2 marks)

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Boris finds Dr Muller in Switzerland who is renowned for her experimental methods at treating stroke victims. Boris flies to Zurich and signs up to undertake a number of experimental drug trials with Dr Muller. Boris is exposed to 2 different conditions over a year-long trial. In one of the conditions, Boris describes a feeling of euphoria and says he can taste the words he is saying.

(c) Identify what class of drug Boris is exposed to and explain the effect that type of drug has on Boris’s nervous system. (2 marks)

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1. Identify one neurotransmitter that psychoactive drugs can impact.

(1 mark)

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1. Identify and briefly describe one way in which psychoactive drugs can impact the functioning of neurotransmitters at the synapse. (2 marks)

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**Question 4 (15 marks)**

Kenji’s cat Orion has learnt some different behaviours since Kenji brought him home as a kitten three years ago. When Orion hears the sound of the 6 o’clock news broadcast he always comes running into the kitchen as this is the time Kenji feeds him his dinner. When Orion was a kitten, he would never go to the toilet in his cat litter, preferring to go on the door mat. Kenji decided to give Orion a sardine whenever he went in the litter box and quickly Orion learnt not to go on the door mat. Orion would also hiss and meow loudly at Kenji’s next-door neighbour and so Kenji would spray him with a small water gun whenever he did this until Orion stopped behaving this way.

1. Identify the two types of conditioning that Orion has learnt behaviour from in the above scenario. (2 marks)

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1. Compare the two forms of conditioning identified in your answer to part (a). (3 marks)

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1. Identify and correctly name one example of how Orion has learnt new behaviour through punishment. (2 marks)

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1. Describe the term Cognitive Behaviour Therapy and explain how it differs from conditioning. (3 marks)

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1. In order for Orion to learn he must be able to retain the information as a memory, assuming that a cat’s memory systems work the same as a human’s.
2. State the function of the Central Executive in the Baddeley and Hitch (1974) Working Memory Model. (1 mark)

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1. Name one slave system of the original Baddeley and Hitch (1974) Working Memory Model and state their functions. (2 marks)

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1. There are several ways to categorise long-term memories. Contrast procedural and episodic memories. (2 marks)

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**Question 5 (11 marks)**

1. Baumrind identified different parenting styles based on two dimensions of responsiveness and control. Define each dimension. (2 marks)

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1. Identify **one of the three** types of parenting style and identify the level (High or Low) for each of the two dimensions. (3 marks)

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1. John Bowlby observed that children who were brought up in orphanages with inconsistent caregivers often showed similar characteristics. Briefly outline the maternal deprivation hypothesis. (2 marks)

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1. Mary Ainsworth added to Bowlby’s attachment theory. According to the Ainsworth there are individual differences that impact the attachment type that a baby will have with its primary caregiver. Identify and explain two factors that impact how the child will attach. (4 marks)

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**Question 6**  **(10 Marks)**

1. Define the psychological term ‘modelling’. (1 mark)

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Scott idolises his older brother Don. He follows him around and often tries to repeat everything he does because he says, “he wants to be just like Don when he grows up”. Don recently got in trouble because he hit an opponent on the football field after he got tackled. Don’s parents and Scott were on the sidelines and his parents punished him at home by grounding him for a week and banning him from having dessert for a month. Two weeks later, Don and Scott were at their local park and Scott was pushed over by another child. Scott just got up and walked away and Don later asked him why he didn’t defend himself and hit back like he would have.

1. Why did Scott not emulate his brother’s behaviour in this situation? Explain Scott’s behaviour in the above scenario. (3 marks)

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1. How does Scott’s behaviour demonstrate the principles of Albert Bandura’s Social Learning Theory? (3 marks)

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1. How does Scott’s behaviour refute (not support) the findings of Albert Bandura’s Bobo Doll experiment? (3 marks)

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**Question 7 (14 marks)**

It’s the end of Ramadan and the Abbas family have come together to celebrate the festival of fast-breaking, Eid al-fitr. Maryam and Daleel are in their mid-30’s and have just recently had a baby, and are now proud parents of two children, 4-month old Abdul and toddler Rida who is 4. The Abbas family all gather at the house for the festival, including Sana, Daleel’s mother who is a doting grandmother at 76, and Kareem, Daleel’s younger brother. Kareem has just finished high school and is unsure of what he wants to do with his life, so Sana has been encouraging Daleel to give him advice and spend more time with him. Meanwhile, Kareem is playing with Abdul and tricks him by hiding his toys then making them appear which Abdul does not enjoy, so Maryam steps in and gives Abdul a big hug which cheers him up immediately.

1. Provide a description of Erikson’s developmental theory (3 marks)

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1. Identify the stage and explain the crisis that each of the family members below are going through (4 marks)

|  |  |
| --- | --- |
| **Daleel** |  |
| **Sana** |  |

Abdul and Rida are in vastly different stages of cognitive development. Piaget theorises that there are 4 stages of cognitive development.

1. Identify and describe the cognitive stage that Rida is in. (2 marks)

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Kareem has recently been in trouble for protesting against animal cruelty and breaking into a factory farm to film the conditions. Kohlberg used moral dilemmas to assess the stage and level of moral reasoning an individual was operating in.

1. What does the term moral dilemma refer to? (1 mark)

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1. Identify the level and stage of moral reasoning that Kareem is operating in. (2 marks)

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1. Explain your answer to part (e) (2 marks)

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**Question 8 (17 marks)**

1. Describe the following **three** Big 5 Personality traits outlined by McCrae and Costa’s personality theory. (3 marks)

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| --- | --- |
| **Conscientiousness** |  |
| **Neuroticism** |  |
| **Extraversion** |  |

1. Carl Rogers and Abraham Maslow outlined the humanistic theory to personality. Identify and describe the three conditions needed for developing a well-adjusted personality according to Carl Rogers. (6 marks)

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1. Albert Bandura outlined how self-efficacy can impact a person’s personality and outcomes. List two factors that can help build an individual’s self-efficacy (2 marks)

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1. Define ‘continuity’ of personality, explain how trait theory accounts for continuity of personality, and identify an empirical study as evidence of this. (3 marks)

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1. Define ‘consistency’ of personality and explain how Mischel’s theory accounts for the consistency of personality. (3 marks)

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**Question 9 (16 marks)**

1. Define the psychological term ‘obedience’. (1 mark)

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1. “It is the power of social situations, rather than the dispositions of people, that leads to evil behaviour”. Name the psychologist who said this and outline the procedure and findings of their experiment based in a fake prison setting. (8 marks)

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1. Outline **three** different explanations the subjects of Asch’s conformity experiment give for their incorrect answers. (3 marks)

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1. Identify and outline **two** reasons why participants were more likely to have maintained the correct response in Asch’s experiment. (4 marks)

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**Question 10 (14 marks)**

Australia is known for its potentially deadly bushfire season. Ash Wednesday, Black Friday and Black Saturday all saw areas devastated, homes destroyed, and lives lost. The most recent bushfire season has seen 34 people killed, 18 million hectares destroyed, almost 3000 homes destroyed, and an estimated one billion animals killed.

1. Referring to the bushfire disaster above, outline **three** event characteristics that contribute to stress. (6 marks)

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1. Identify and define **two** positive responses to significant events. (4 marks)

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The Australian community, who were collectively shocked and saddened by the fires devastation, banded together and with global assistance raised millions of dollars to assist bushfire affected areas.

1. Identify the factor of the McMillan and Chavis model which best describes this above occurrence. (1 mark)

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1. Explain your answer to part (d). (3 marks)

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**End of Section Two**

**Section Three: Extended answer 25% (60 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 25–30. When you have answered this question, turn to page 31 for Question 12 and write your answer on pages 32–35.

**Question 11 (31 marks)**

Rin is a Year 6 who is causing concern at his school. He does not interact with other students in group work, he never answers questions in class and spends lunch and recess on his own. When other students approach him, he avoids eye contact and folds his arms in front of him. Teachers have spoken to him about his behaviour, but he considers himself friendly and does not see a need to change.

Rin has also demonstrated another unusual behaviour. At his school it is common practice for students to bring in cupcakes once a month to share with other children. The cupcakes are placed at the front of the class and students are required to wait until recess to receive their cupcake. However, Rin consistently runs to the front of the room as soon as the cupcakes are placed and takes one back to his desk. This has caused many of the students to complain about his behaviour.

Outside of school Rin hangs out with his older brother and his mates; they are all in year 8. They usually hang outside the local shops and play on their skateboards and when they get hungry, they all share whatever food they have with them. When eating with his brother’s friends Rin has to be quick and grab what he wants before it is all gone.

Apply your knowledge of Mischel’s theory of personality to explain Rin’s behaviour and explain the cognitive processes of memory and learning which allow Rin to take in information from his environment, store it and later retrieve it for use.

Included in your answer, you should:

* Identify and define Mischel’s personality theory.
* Describe the features of Mischel’s theory of personality and discuss how **one** of these features

would explain Rin’s behaviour.

* State **one** limitation of this type of theory.
* Identify and briefly outline **one** memory model which Rin is using to input, store and retrieve information on how to behave.
* Explain how the learning theory in this scenario works and apply **two** aspects of this theory

which would help explain Rin’s behaviour at school.

* Refer to and apply psychological evidence and understanding.

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**Question 12 (29 marks)**

Eleanor and Chidi have been happily married for a number of years. Despite this they still have trouble communicating and Eleanor convinces Chidi that it would be beneficial if they went to couples’ counselling. Eleanor tells the therapist that she sometimes feels like Chidi does not listen to what she says and that they don’t talk about meaningful things anymore. Chidi simply shrugs and says he doesn’t understand what Eleanor is talking about, and that they talk all the time.

'Jason and Michael are the couples’ 2-year-old twins. Jason is a big talker and often won’t stop chatting in incomprehensible sentences for long periods of time. Michael however is very different and has not begun talking in sentences at all, in fact he barely ever mutters more than the occasional one word here and there. Eleanor is confused by these vastly different outcomes in the identical twins’ early communication and takes them to a speech therapist for help. The therapist provides Eleanor with a number of strategies to help assist Michael and Jason with their communication.

* Identify and outline the theory of communication that would explain Eleanor and Chidi’s

differing views on the communication in their marriage.

* Identify and explain two types of conflict resolution that Elanor and Chidi could benefit from.
* Identify and explain the communication theories outlining both innate and learned

communication.

* Name and outline **four** techniques the therapist would have provided Eleanor to assist with

the boys’ language development and to help each of the boys’ differing language difficulties.

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Supplementary page

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Supplementary page

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