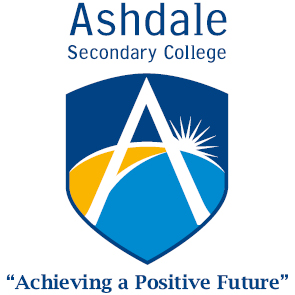
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**Semester One Examination 2015**

**Question/Answer Booklet**

**NAME:**

**PSYCHOLOGY**

**AEPSY2**

Teacher:

**Time allowed for this section**

Reading time before commencing work: 10 minutes

Working time for paper: 150 minutes

**Material required/recommended for this section**

**To be provided by the supervisor**

Question/answer booklet

**To be provided by the candidate**

Standard items: pens, pencils, pencil sharpener, highlighter, eraser, ruler

Special items: approved calculator (Graphic calculators are **NOT** permitted)

**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 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 answered | Suggested working time (minutes) | Marks available | Percentage of the exam |
| Section one:  Research Methods | 3 | 3 | 30 | 20 | 20 |
| Section two:  Topic-related content | 8 | 8 | 90 | 60 | 60 |
| Section three:  Extended answer | 2 | 1 | 30 | 20 | 20 |
| Total | | | | 100 | 100 |

**Instructions to candidates**

1. Sitting this examination implies that you agree to abide by the school rules for the conduct of examinations.
2. Answer all questions by writing your answers in this booklet in the spaces provided.
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.
4. Spare answer pages may be found at the end of this booklet. If you need to use them, indicate in the original answer space where the answer is continued (i.e. give the page number).

Section One: RESEARCH METHODS 20 marks

This section has **THREE (3)** questions. Attempt **ALL** questions.

Suggested working time: **30 minutes**

Read the following and answer the questions using the data (ie text and statistics) presented.

Question 1 (6 Marks)

A researcher conducted an experiment to measure the effect of caffeine on a person’s ability to complete a jigsaw puzzle.

One hundred university students aged between 20 and 25 years were randomly selected and allocated to one of two groups.

The experiment was conducted over one day. Group 1 consumed a caffeine-based drink. Group 2 consumed a non-caffeine-based drink. After 30 minutes, participants from both groups were given the same simple jigsaw puzzle to complete. Participants were timed for this activity. The results are as follows:

|  |  |  |
| --- | --- | --- |
| Group 1 | Caffeine Group | 10 seconds (mean score) |
| Group 2 | Non-Caffeine Group | 16 seconds (mean score) |

A statistical test on the difference between the two mean scores for Group 1 and Group 2 found that p > 0.05.

(a) Identify the ***independent*** and ***dependant variables*** for this investigation.

(2 marks)

***Independent variable*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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***Dependant variable*** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

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

(b)Write an ***operational hypothesis*** for this investigation. (2 marks)

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(c)State the conclusion the researchers can draw from these results and using your knowledge of psychology, explain why this may have occurred. (2 marks)

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Question 2 (8 marks)

A research study was designed to investigate the extent to which children and adolescents stereotyped tattooed individuals with antisocial (or negative) behaviours.

Data were collected using a task presented as a 20-page picture booklet entitled ‘Who is it?’ Each page of the booklet showed a picture of three different men, one of whom was tattooed.

Below each set of pictures was a statement about the recent behaviour of one of the men. This was followed by the question ‘Who is it?’ Students were asked to tick the picture of the person whom they thought best matched the statement.

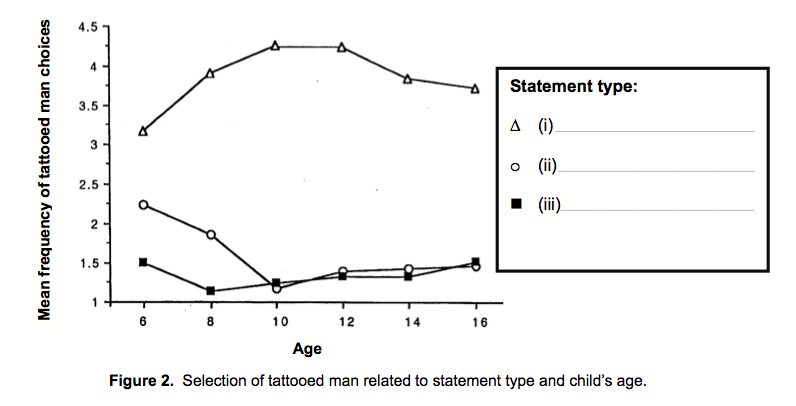
One-third of the statements below each picture referred to positive (or prosocial) behaviour, one-third to antisocial behaviour and one-third to neutral behaviour.

The researchers were interested in how often children associated positive (or prosocial), negative (or antisocial), or neutral behaviour with the man with tattoos.

Scores were tallied for each type of association by scoring ‘1’ every time the students ticked the picture of the tattooed man, and ‘0’ when either of the other pictures was ticked. For each participant, this provided three stereotype scores (positive, neutral and negative choices), each with a possible range from 0 to 6. Mean scores for each age group studied are summarised in Table 1 below.

Table 1. Mean stereotype scores by age.

|  |  |  |  |
| --- | --- | --- | --- |
| **Age** | **Positive** | **Neutral** | **Negative** |
| **6 years** | 2.24 | 1.50 | 3.17 |
| **8 years** | 1.86 | 1.14 | 3.91 |
| **10 years** | 1.17 | 1.23 | 4.27 |
| **12 years** | 1.40 | 1.32 | 4.25 |
| **14 years** | 1.44 | 1.33 | 3.84 |
| **16 years** | 1.46 | 1.52 | 3.73 |

a) Consider the data in Table 1 and the line graphs in Figure 2 above.

Use this information to correctly label the ‘Statement type’ for each line graph in Figure 2 as positive, neutral or negative. (3 marks)

b) Name two (2) variables other than gender that could have influenced student responses if researchers had not controlled for them. (2 marks)

Variable one: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Variable two: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) Look at the trends in the data in Table 1 and Figure 2. Describe what these findings suggest about the extent to which the children and adolescents in the study associated tattooed individuals with antisocial behaviours. (3 marks)

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Question 3 (6 Marks)

A class of Year 11 students from Ashdale SC completed a questionnaire analysing their personality. Below are the personality scores, for 20 students for the trait of ‘extraversion/introversion’ measured on a ten-point scale. (10 being the highest for extraversion)

|  |  |
| --- | --- |
| Student | Extraversion Score |
| 1 | 1.0 |
| 2 | 1.5 |
| 3 | 2.5 |
| 4 | 3.0 |
| 5 | 3.5 |
| 6 | 4.0 |
| 7 | 4.5 |
| 8 | 4.5 |
| 9 | 4.5 |
| 10 | 4.5 |
| 11 | 4.5 |
| 12 | 4.5 |
| 13 | 5.0 |
| 14 | 5.5 |
| 15 | 6.0 |
| 16 | 6.5 |
| 17 | 7.5 |
| 18 | 8.0 |
| 19 | 9.5 |
| 20 | 10.0 |

(a) Calculate the: (2 marks)

Mean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mode \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Median \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Name and explain ONE (1) aspects of the sampling process that would have been used in this study. (2 marks)

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(c) Explain two (2) important ethical considerations that had to be made before this investigation could start. (2 marks)

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END OF SECTION ONE

Section Two: TOPIC RELATED CONTENT 60 marks

This section has **EIGHT (8)** questions. Attempt **ALL** questions.

Suggested working time: **90 minutes**

Biological influences (15 marks)

Question 4

(a) What is the “corpus callosum” and what function does it serve? (2 marks)

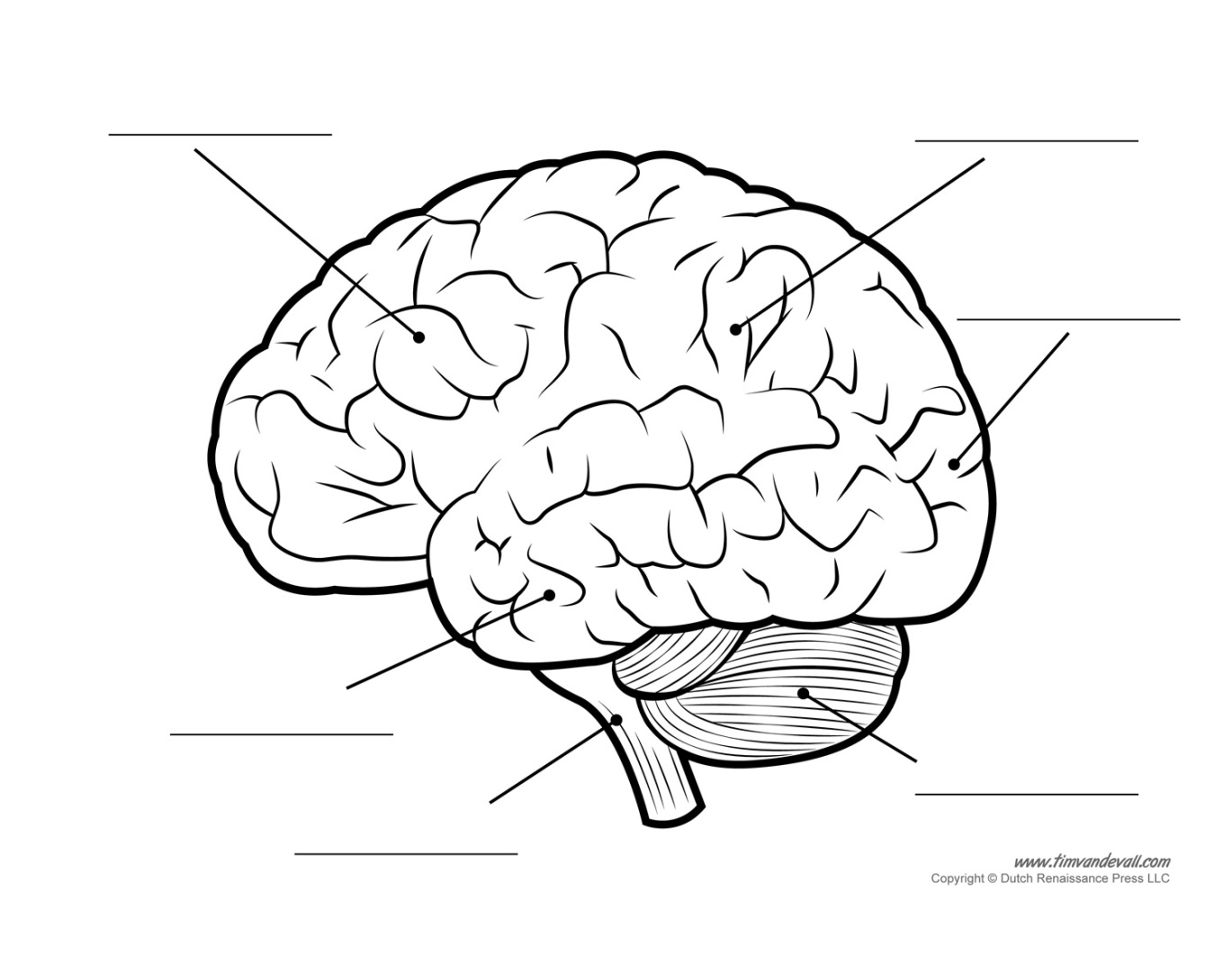
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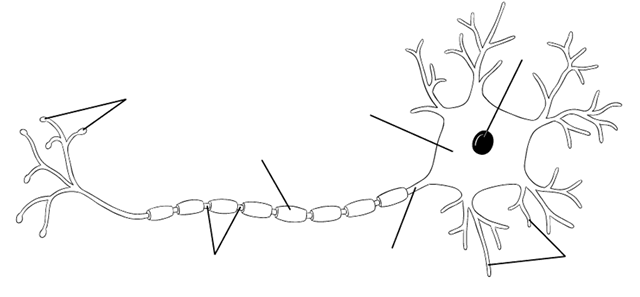
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(b) Label the brain diagram: (3 marks)



(c) Label the following diagram: (7 marks)



(d) Complete this table: (3 Marks)

|  |  |  |
| --- | --- | --- |
| **Class of Drug** | **One (1) effect on behavior** | **Example of this class of drug.** |
| **Depressant** |  |  |
| **Stimulant** |  |  |
| **Hallucinogen** |  |  |

**Intelligence (7 marks)**

**Question 5**

(a) Using **Spearman’s** two factor theory of intelligence, explain why a person who scores well on the vocabulary part of an intelligence test, will be expected to perform well in all the other parts too. (3 marks)

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(b)What was **Binet’s** contribution to the field of intelligence and why was it important? (2 marks)

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(c) What is meant by “***cultural bias”*** in testing? (2 marks)

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Cognition (20 marks)

Question 6

(a) Explain the difference between “Sensation” and “Perception”:(4 marks)

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(b) Define “**Habituation**” and give a specific example: (2 marks)

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(c) Explain **“Top-Down”** and **“Bottom-Up”** processing and give an example of each: (4 marks)

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(d) Describe how being in a normal waking state of consciousness or an altered stated of consciousness can change your sensations and perceptions: (2 marks)

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(e) List the **4** types of Brain waves, when they are active and what the amplitude and frequency is of each: (8 marks)

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Relational influences (8 marks)

Question 7

(a) Define **Pro-Social behaviour** and give an example. (2 marks)   
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(b) People act pro-socially because of **three** **main theories**. Describe them: (3 marks)

Pro-social behaviour is inherited:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pro-social behaviour is learned:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pro-social behaviour is empathy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(c) Describe the following three “determinants of liking”: (3 marks)

Proximity:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Similarity:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reciprocity:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Communication (10 marks)

Question 8

(a) Name and describe two (2) barriers to effective communication. (4 marks)

One: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Two: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(b) Non-verbal communication is divided into types. List and describe 2 types of non-verbal communication: (4 marks) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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(c) Describe and give an example of “Active listening” (2 marks)

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END OF SECTION TWO

Section Three: Extended response ESSAY 20 marks

This section has **TWO (2)** questions. You must choose **ONLY ONE (1)** question to answer.

Be sure to indicate which essay you have chosen

Suggested working time: **30 minutes**

**Question 9**

There is much debate about intelligence and how it is measured. Over time, theorists have built upon Galton’s idea of general intelligence.

Discuss the theories of **TWO** intelligence theorists.

In your answer, you should:

* Define Intelligence.
* Use psychological evidence to explain two intelligence theorists.

Be sure to write your answer in essay format.

OR

**Question 10**

Dexter Dunphy did a study in Sydney in the 1960’s on adolescent groups using participant observation. Write an essay describing the stages of Dunphy’s research.

In your essay you should:

* Define and explain “participant observation”, “dyads”, “cliques” and “crowds”.
* List and describe the 5 stages of Dunphy’s theory using examples.
* Be sure to write in essay format.

END OF SECTION THREE

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