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**Joseph Banks  
Secondary College**

**Research Methods, Relational Influences and Cognition   
Worth 10% of the School Mark**

**Question/Answer Booklet**

**PSYCHOLOGY**

**Units 1**

Student name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Time allowed for this paper

## Reading time before commencing work**: 4 minutes**

Working time for the paper: **fifty minutes**

# Materials required/recommended for this paper

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

This Question/Answer Booklet

Formulae and Data Booklet

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

Standard items: pens (blue/black preferred), pencils (including coloured), sharpener,

correction tape/fluid, eraser, ruler, highlighters.

Special items: non-programmable calculators approved for use in the WACE examinations

# 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 | Suggested working time  (minutes) | Your Mark | Marks available | Percentage of test |
| Section One:  Research Methods | 3 | 20 |  | 20 | 50 |
| Section Two:  Short Answer | 3 | 27 |  | 43 | 50 |
|  |  | **Total** |  | 63 | 100 |

**Instructions to candidates**

1. The rules for the conduct of Western Australian external examinations are detailed in the *Year 12 Information Handbook 2016*. Sitting this examination implies that you agree to abide by these rules.
2. Write your answers in this Question/Answer Booklet.
3. When calculating numerical answers, show your working or reasoning clearly. Your working should be in sufficient detail to allow your answers to be checked readily and for marks to be awarded for reasoning.

In calculations, give final answers to one significant figures and include appropriate units where applicable.

1. 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.
2. Supplementary pages for the use of planning/continuing your answer to a question may have been 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 marks)**

**Question One (6 marks)**

Dr Chaz is planning an experiment to determine the effect of a study strategy called ‘mind mapping’ on student test scores at Marina Senior College. He used 100, 17-year-old Year 11 Psychology students, 50 of which he taught to use the mind mapping strategy and 50 which he did not.

1. Write an operational hypothesis for this experiment. (3 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Measurable IV and DV  Prediction  Population  Comparison to control group  e.g.  It is hypothesised that 17 year old year 11 Psychology students who are taught mindmapping strategies will show higher test scores that 17 year old year 11 Psychology students who are not taught mindmapping strategies. |  |

1. State the population from which the sample was drawn. (1 mark)

|  |  |
| --- | --- |
| Descriptor | Mark |
| 17-year-old Year 11 Psychology students  Must not state sample e.g. 100 or 50 in each group | 1 |

1. State the independent variable: (1 mark)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Mindmapping or no mindmapping | 1 |

1. State the dependent variable: (1 mark)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Test scores | 1 |

**Question Two (3 marks)**

Cognitive test scores for a group of students are listed below. (3 marks)

2, 1, 7, 9, 5, 5, 4, 11

Calculate the following:

|  |  |
| --- | --- |
| Descriptor | Mark |
| Mean: 5.5  Median: 5  Range: 10 | 1  1  1 |

**Question Three (11 marks)**

A psychologist wanted to investigate the relationship between temperature and performance on a test of memory. The psychologist required a sample of 60 adults to participate, firstly in a room where the temperature was 16 °C; and secondly in a room where the temperature was 44 °C.

1. Outline **three** ethical considerations the psychologist must adhere to and **how** they can achieve this. (6 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| 1 mark for identify 1 mark for explaining how a researcher can follow the participant right  Any 3 of the following:  Informed consent: Ensure participants are verbally briefed on the method, reason for research and the risks involved. This should also be restated on their consent form; the rights of the participants being addressed and if there are any possible physical or psychological harm that may be encountered during the research.  Voluntary participation: ensure participant feel no pressure to take part  Confidentiality: Ensure that the data is kept in a secure location and that if research is published the participant is given a code instead of using their name  Withdrawal of rights: If a participant should feel distressed in any way (physically or emotionally) the research should cease immediately and the research should ensure counselling is accessible if needed  Debriefing: Ensure that after the research has taken place the results are explained to the participant, ensure they are leaving the research with the same physiological and psychological state that they entered and provide support services if not. |  |

1. Identify whether this is an experimental or non-experimental study and give a reason for your answer. (2 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| 1 for identifying 1 for justification  Experimental  Any of the following:  Manipulation of the IV and measure of a DV  Measuring a cause and effect relationship | 1  1 |

1. Identify whether the research above is scientific or non-scientific and give two reasons for your answer. (3 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| 1 for identifying 1 for justification  Scientific  Any of the following:  Testable concepts, measurable DV, follows a method |  |

**Section Two- Short Answer Questions (27 marks)**

**Question Two – Relational Influences (19 marks)**

1. Describe the process of socialisation (2 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Socialisation is the process whereby individuals learn the expectations and social norms of the larger society around them.  This helps shape the behaviour, beliefs and emotions that are deemed acceptable | 1  1 |

1. Define the term agents of socialisation and list 2 agents of socialisation (3 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Agent of socialisation is the source of where the individual learns the social norms from  e.g. media, friends, family, cultural groups, school | 1  2 |

In the 1950’s and 1960’s Harry Harlow conducted an experiment on baby Rhesus monkeys separated from their mother at birth.

c) Describe Harlow’s experiment including its aim, dependent and independent variables, procedure and results. (5 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Aim: To test whether food or contact comfort (love) was more important for infants monkies forming attachments  Method: 8 infant monkies taken form their mothers and allowed access to two wire surrogate mothers. 4 monkies had the wire mother with a feeding tube and 4 had the cloth mother with a feeding tube.  The IV was which “surrogate mother” fed the monkey  The DV was the amount of time spent with each mother  Results: All monkies spent no more than 2 hours max with the wire mother and most monkies spent 16 hours out of 24 hours in contact with the cloth mother | 1  1  1  1  1 |

d) Outline the maternal deprivation hypothesis. (2 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Infants who are deprived of their primary care giver in the first few years of life or have significant disruptions to their 1st attachment will have long term negative impacts on their social, cognitive and emotional development | 1  1 |

e) Outline some of the key characteristics of attachment theory. (4 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Biological  Universal  Increases the chances of survival for the baby  Multiple attachments can form | 1  1  1  1 |

1. Define the term parenting style. (1 mark)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Parenting styles are the characteristic rules and principles that govern how a parent interacts with and raises their child | 1 |

g) Compare an authoritative and a permissive parenting style. (2 marks)

|  |  |
| --- | --- |
| **Similarity** | **Difference** |
| Both are high warmth  OR  Both encourage the child to express themselves and are open to hearing the child’s point of view  *Accept any other correct / relevant answer* | Authoritative has high control, setting expectations and rules for the child to follow whereas permissive does not often discipline or set rules for the child.  *Accept any other correct / relevant answer, must be a comparative statement* |

**Question 3 – Cognition (8 marks)**

1. Define the term intelligence. (2 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Intelligence is the ability to learn from past experience and apply learnt skills to new settings. | 1  1 |

1. Define the term transduction (2marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| the process of converting sensory signals into an electrical signal in the sensory neuron so that the message can be relayed to the brain | 1  1 |

1. Identify two factors that can impact an individual’s perception. (2 marks)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Any two of the following:  Expectations, previous experience with the stimuli, mood,  Acceot any relevant correct answer | 1  1 |

Anouk is high in bodily kinaesthetic and inter-personal intelligence.

1. Define one of the two intelligences that Anouk is high in. (1 mark)

|  |  |
| --- | --- |
| Descriptor | Mark |
| Bodily kinaesthetic: the ability to use your body in a skilful way to solve a problem  Inter-personal: ability to identify, understand and respond to others emotions accurately |  |

1. Predict a subject at school that Anouk may enjoy based off of her intelligence. (1 mark)

|  |  |
| --- | --- |
| Descriptor | Mark |
| BK: sports, cooking, drama  IP: drama, sports,  Accept any correct relevant answer |  |