

**Joseph Banks  
Secondary College**

**Research Methods and Biological Influences  
Worth 5% of the YEAR Mark**

**Question/Answer Booklet**

**PSYCHOLOGY**

**Units 3 and 4**

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

**Time allowed for this paper**

**Reading time before commencing work: thee minutes**

Working time for the paper: **sixty-one 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 | 2 | 20 |  | 30 | 50 |
| Section Two:  Short Answer | 3 | 41 |  | 30 | 50 |
|  |  | **Total** |  | 30 | 100 |

**Instructions to candidates**

1. The rules for the conduct of Western Australian external examinations are detailed in the *Year 11 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**

Researchers wanted to investigate the ongoing health effects of working as a medical student at a busy city hospital. Participants were first year medical students chosen from a hospital close to the university where the researchers worked. They were followed throughout their medical training. Researchers met participants once a year over an eight-year period.

1. Name the study design used by researchers. Circle the correct answer below. (1 mark)

**Longitudinal / Cross-sectional**

1. State **one** advantage of using this type of study design.   (1 mark)

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1. State **one** disadvantage of using this type of study design. (1 mark)

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1. Identify the sampling technique used in this study. Justify your answer. (1 mark)

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1. State **one** disadvantage of this type of sampling. (1 mark)

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1. Provide ONE example of quantitative data and one example of qualitative data that psychologists could use to assess the health effects of working as a medical student. State whether each example is *objective* or *subjective.* (4 marks)

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**Question Two**

Psychologists designed a study to test whether drinking goji berry juice improved adults’ energy levels. Participants were randomly divided into two groups. Participants in Group 1 drank goji berry juice twice a day for 14 days. Participants in Group 2 drank artificially coloured and a flavoured water that looked and tasted like goji berry juice twice a day or 14 days. After the 14 days, the participants were asked to rate their energy levels on a scale from 0 to 100.

1. Identify the research design of this study. (1 mark)

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1. State an advantage and disadvantage of this design. (2 marks)

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

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1. Identify the main source of error in the data in this study. (1 mark)

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1. Outline **one** way of improving the study to reduce this source of error. (1 mark)

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1. Identify **two** pieces of information that the researchers must explain to participants at the start of the study to ensure that the research is conducted ethically. (2 mark)

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**Section 2: Question One – Psychology of Personality (20 marks)**

1. Like many psychologists, Maslow was a stage theorist. Diagrammatically, Maslow used the pyramid below to demonstrate personality development.

5

4

3

2

1

Name and describe each of the stages in Maslow’s theory of personality development as demonstrated in the diagram. (2 marks)

|  |  |  |
| --- | --- | --- |
| 3 |  |  |

1. Describe **one (1)** *limitation* of Maslow’s theory of personality development. (1 mark)

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(c) Outline the trait theory of personality (4marks)

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(d) Tim is 27 years old, on the weekends he enjoys extreme sports such as sky diving and free climbing without a rope and he tends to be fairly spontaneous. Tim doesn’t see these activities as scary or risky, he just enjoys how they make him feel and bring him a sense of calm. He has recently started dating Lemar, who is the complete opposite. Lemar would never try any of the extreme sports that Tim is into and he prefers to plan out activities and trips away, unlike Tim.

i. Identify the trait highlighted in the scenario that Tim is high in. (1 mark)

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ii. Using Eysenck’s theory of personality, define and compare **one trait** that Tim and Lemar are opposite for. Include evidence from the description above to support your answer. (4 marks)

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1. Compare the psychodynamic and trait theory of personality. (2 mark)

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

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1. Freud theorised that our personality was shaped by the psychosexual stages of development.

i. Identify the third stage in this (1 mark)

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ii. Outline how the psychosexual stages of development impact later personality

(4 marks)

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1. Evaluate the psychodynamic theory of personality (2marks)

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(g) (4 marks)

**Question Two – Developmental Psychology (18 marks)**

1. Describe what psychologists mean by: (2 marks)

*Nature*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Nurture*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Piaget identified four stages in a human’s cognitive development. Name and describe the two stages below: (4 marks)

*Piaget’s second stage of cognitive development*:

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

Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Piaget’s fourth stage of cognitive development*:

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

Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dana is playing hide and seek with her brother Dion (age three). Dion stands in the centre of the room and covers his eyes with his hands and says, ‘I am hiding’.

1. Explain, why Dion believes that he is hiding, referring to the relevant concept from Piaget’s theory of cognitive development. (2 marks) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Compare two types of play as identified by Parten (1932). (2 marks)

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1. Outline two physical development skills that babies learn, giving an example for each (4 marks)

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Table 2: Concordance rates of a given trait in Monozygotic and Dizygotic twins

|  |  |  |
| --- | --- | --- |
| Trait | Monozygotic Twins | Dizygotic Twins |
| IQ | 74 | 68 |
| Anxiety Disorder | 45 | 25 |
| Major Depression | 54 | 40 |

1. According to Table 2, which trait has a largest genetic component? Use information in the table to justify your answer. (2 marks)

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1. Explain how researchers use adoption studies to understand the nature and nurture. (4 marks)

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