



Joseph Banks Secondary College

**Research Methods Developmental
and Personality**
Worth 5% of the school mark
Question/Answer Booklet

PSYCHOLOGY

Units 1 and 2

Student name : _____

Time allowed for this paper

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

Working time for the paper: **sixty-two 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	24		26	40
Section Two: Short Answer	2	18		19	30
Section Three: Extended Answer	1	18		19	30
Total				64	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.

4. 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.
5. 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**(26 marks)****Question One****(7 marks)**

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.

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

Longitudinal / Cross-sectional

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

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

- (d) 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)

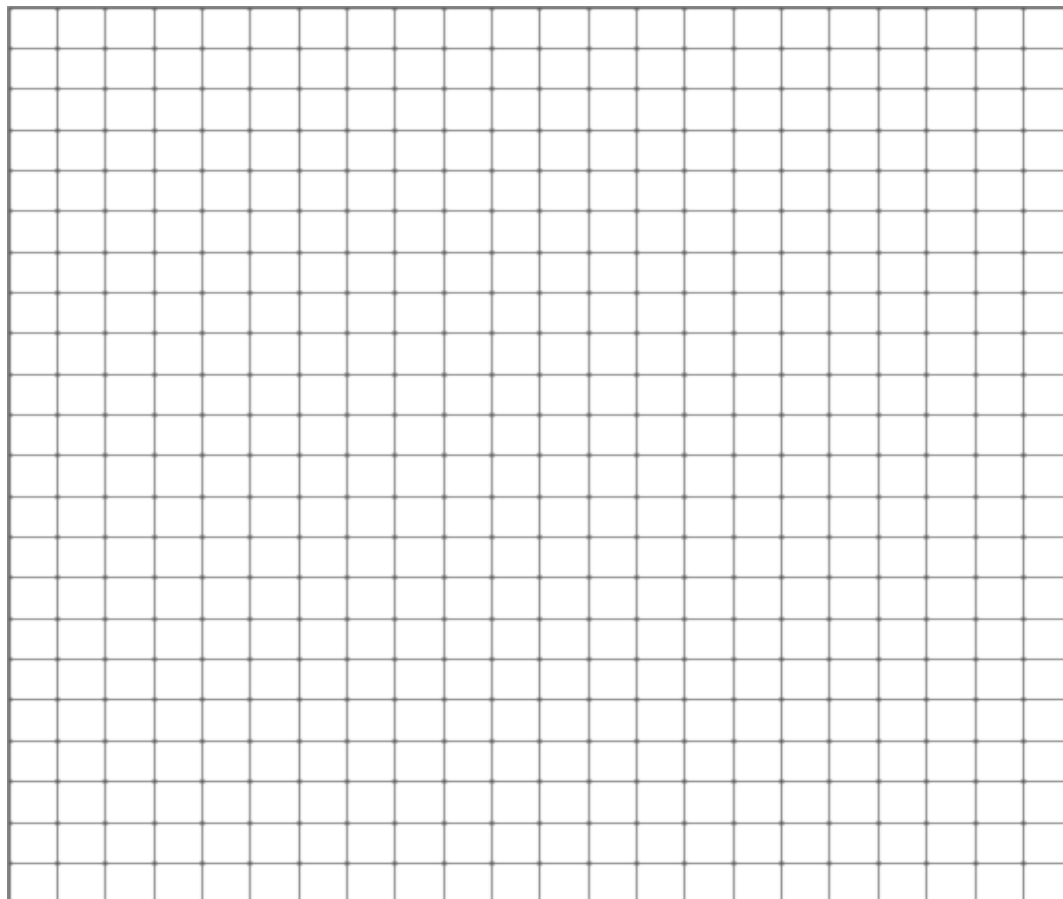
Question Two**(19 marks)**

Ethnic identity development may increase resilience to discrimination and prejudice, which are often common and stressful for ethnic minority adolescents. Based on ethnic identity development and resilience theory, it is expected that if an individual faces higher levels of discrimination-based stress, then ethnic identity strength would have a positive protective effect on the individual's self-esteem. The researchers wanted to investigate these variables in adolescents ages (15-18), initially using a correlation research design. The initial exploratory results can be shown below.

Table 1: Strength of resilience to discrimination and prejudice vs ethnic identity strength

<i>Participant</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
Ethnic identity strength	5	2	7	6	1	4	2
Strength of resilience	6	3	7	8	3	2	1

- i. Plot a graph of the above results. (5 marks)



- ii. Describe **one** finding from the above graph. (1 mark)

The researchers then wanted to create a quasi-experiment on from the above non-experimental data.

- a) From the above research extract identify the aim. (1 mark)

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

- b) Create and outline a potential method to test the above variables out experimentally. (5 marks)

- c) The researchers found that the results of their quasi-experiment had similar results as their correlation study, achieving a p value of $p < 0.05$. State the conclusions that the researchers can draw from this. (3 marks)

Section Two – Development and Personality

Question One

(12 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 are now proud parents of two children, 4-month old Abdul and toddler Rida who is 4 years old. 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.

(a) Provide a description of Erikson's developmental theory

(3 marks)

(b) 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.

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

Rida was reaching for a kebab when she noticed a picture of a crescent moon on the bowl. She picked up the bowl and asked Sana if the picture was representing a moon, Sana nodded.

(d) According to Piaget's theory of cognitive development, identify and explain the mental process Rida was undergoing to identify the moon. (3 marks)

Question Two

(7 Marks)

- (a) Compare Freud's psychosexual stages of development and Erikson's psychosocial stages of development. (4 marks)

Similarities	Differences

- (b) Use the table below to answer questions regarding the heritability of traits using twin studies.

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

Trait	Monozygotic Twins	Dizygotic Twins
IQ	74	58
Anxiety Disorder	45	25
Major Depression	54	20

- i. Define the term concordance. (1 mark)

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

Extended Answer Section

Question One**(19 marks)**

Amelia is a young woman who works at a café in the city, she is good at her job because she is lively and talkative to customers. She often dreams about travelling, saving all her money to go to a new place each year. While waiting for her holidays, she often feels restless and excitable. However, if there are any delays to her flight or turbulence, she becomes touchy and aggressive towards flight staff. One day Amelia found out her that she had an identical twin sister, they were both very nervous to meet each other, but ended up talking for hours about their fun experiences travelling and meeting lots of new people.

- Use Eysenck's trait theory of personality to explain one trait of Amelia's behaviour (3 marks)
- How would a trait theorist explain the similarities between the two twins? (2 marks)
- Evaluate the use of twin studies in explaining behaviour. (5 marks)
- Describe the similarities and differences of adoption and twin studies (4 marks)
- Refer to psychological evidence. (5 marks)
