

Joseph Banks Secondary College

Research Methods and Cognition Worth 4% of the School Mark Question/Answer Booklet

PSYCHOLOGY (General)

Units 3 and 4

Student name :	
Student name :	
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	3	31		29	50
Section Two: Short Answer 3 33			30	50	
Total				59	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.
- 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.

Research Methods Question 1

(10 marks)

Researchers were interested in the relationship between exercise and life satisfaction in teenagers aged 14 - 18.

Data from six participants is shown in the table below and was collected through a survey.

Participant	Hours of exercise per week	Life Satisfaction score
1	2.0	14
2	2.5	16
3	1.5	12
4	5.0	18
5	3.5	16
6	1.0	10

i) Calculate the following scores for Life Satisfaction. a) Mean b) Mode c) Median d) Range	(4 marks)
ii) This is an example of a correlational study, are correlational studies experimental or non-	-experimental? Why? (2 marks)
iii) Write an operationalised hypothesis for the research above.	(4 marks)
	·····
Question 2	(6 marks)
A teacher was curious how racism affects behaviour by conducting an experiment with her studentheir parents. She formed a blue-eyed group and a brown-eye group, informing them that the brownerior to the blue-eye group. The brown eyed group had an increased self-efficacy in the class bullied the blue-eye group. Students in the blue-eye group lost self-efficacy and self-respect. The footage to record behaviour and released this to the public.	wn-eye group was room, as well as
i) Identify two ethical issues with this study and define them.	(4 marks)

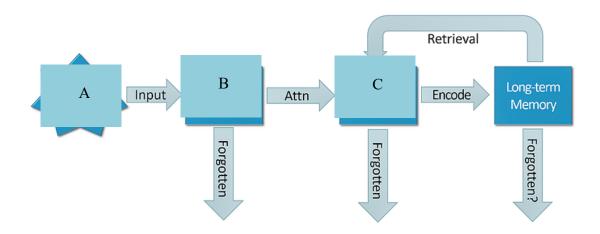
ii)	Identif	y the independent variable.		(1 mark)
iii)	Identif	y the dependent variable.		(1 mark)
Qu	estion	3		(13 marks)
a)	Define	e the term operationalise.		(1 mark)
b)) Which type of research manipulates an independent variable and measures a dependant variable?			
c)) Which group in experimental research receives the independent variable? `. (1 mark)			
 d)) What is the purpose of the control group in experimental research? (1 mark			
— е)	, , , , , , , , , , , , , , , , , , , ,			or the experimental and control (10 marks)
i) Independent variable: Sleep Dependant variable: Attention span in maths		ttention span in maths class		
		Experimental group receives	Control group receives	Three potential extraneous variables
ii) Independent variable: Alcohol Dependant variable: A		agression		
	,	Experimental group receives	Control group receives	Three potential extraneous variables

COGNITION

Question 4 (7 marks)

Analyse the Information Processing Model below.

Information Processing Model



 i) Identify A and E

a)	(1 mark)
h)	(1 mark)

ii) What is the capacity and duration of B?

Capacity:	(1 mark)
Duration:	(1 mark)

iii) What is the capacity and duration of C?

Capacity:	(1 mark)
Duration:	(1 mark)

iv) What is the capacity and duration of Long-term Memory?

Capacity: (1 mark)

Duration: _____ (1 mark

Question 5

(6 marks)

In orde	er to log into a banking app, Sophie had to remember a 5-digit code she had saved in her notes ap	p.
i)	What method of rehearsal would Sophie use to recall the code 10 seconds after looking at her no	tes? (1 mark
ii)	After using this method successfully, Sophie decided to commit the code into long-term through e rehearsal. Identify one strategy she could use to do this and why it is useful.	laborative (2 marks)
iii)	Eventually, Sophie was able to type the code into her banking app automatically. It was as if her f what to do on their own. What type of long-term memory is this?	ingers knew (1 mark)
iv)	Identify another type of long-term memory and provide an example.	(2 marks)
Ques	stion 6 (1	1 marks)
a) Wh	nat does the term encoding mean in relation to memory?	(1 mark)
•	me and describe briefly the three main ways in which memory researchers measure how nation people remember.	much (6 marks)
One:		
Two:		
Three	»:	

Adam and Lucy chat for a whole and she says that they should stay in contant. Lucnh tells Adam that her telephone number is 0425 456 785. Adam does not have anything to write the phone number down on, so he tries to remember it.		
c) Describe briefly one problem that Adam might have Explain the reason why, referring to a feature of short-		
d) Outline two strategies that Adam could use to assis	t him in remembering Lucy's telephone number. (2 marks)	
Question 7	(6 marks)	
a) Name and describe two slave systems of Baddeley their functions. One:	(4 marks)	
Two:		
b) Compare the working memory model with that of the	e multi-store model (2 marks)	
Similarity	Difference	