**PSYCHOLOGY**

**Year 11 ATAR SEMESTER ONE EXAM 2019**

**Question/Answer Booklet**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student Number: In figures |  |  |  |  |  |

In words

Time allowed for this paper

Reading/planning time before commencing work: ten minutes

Working time for paper: two hours and a half hours

Material required/recommended for this paper

To be provided by the supervisor

This Question/Answer Booklet

To be provided by the candidate

Standard materials:pens, pencils, eraser, correction fluid, ruler, highlighters

Special items: calculators satisfying the conditions set by the School Curriculum and Standards Authority for this course

Important note to candidates

No other materials may be taken into the examination room. It is your responsibility to ensure that you do not have any unauthorised notes or other material 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 | Suggested working time | Number of questions available | Number of questions to be attempted | Marks | %  weighting |
| Section One | 30 minutes | 2 | 2 | 25 | 20 |
| Section Two | 90 minutes | 5 | 5 | 68 | 55 |
| Section Three | 30 minutes | 2 | 2 | 46 | 25 |
|  |  |  | Total marks | 139 | 100 |

# Instructions to candidates

1. The rules for the conduct of Western Australian external examinations are detailed in the *Year 12 Information Handbook 2015.* Sitting this examination implies that you agree to abide by these rules.
2. Write your answers in this Question/Answer Booklet.
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.

1. Spare pages are included at the end of this booklet. They can be used for planning your responses and/or as additional space if required to continue an answer.

* Planning: If you use the spare pages for planning, indicate this clearly at the top of the page.
* Continuing an answer: If you need to use the space to continue an answer, indicate in the original answer space where the answer is continued, i.e. give the page number. Fill in the number of the question that you are continuing to answer at the top of the page.

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Section One: Research Methods 20% (25 marks)

This section has two (2) questions. Answer all questions. Write your answers in the spaces provided.

Spare pages are included at the end of this booklet. They can be used for planning your responses and/or additional space if required to continue an answer.

* Planning: If you use the spare pages for planning, indicate this clearly at the top of the page.
* Continuing an answer: If you need to use the space to continue an answer, indicate in the original answer space where the answer is continued, i.e. give the page number. Fill in the number of the question that you are continuing to answer at the top of the page.

Suggested working time: 30 minutes

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Question 1 Total 16 marks

A High school Psychology teacher discovered her Year 11 students were constantly lining up at the school café. She decided to conduct a study to see how many of her students drank caffeinated drinks and if this had any effect on their ability to perform tasks during the day. She asked the students in her 3 classes and found that 40 students drank caffeinated drinks every day. She then produced two groups of 25, those that drank caffeine daily and those who did not. After the caffeine drinkers had their morning caffeine, she asked all students to each complete a jigsaw puzzle and timed how long it took for them to complete it.

a) Name the experimental group, the dependent variable and **two (2)** controlled variable in this research study.

(4 marks)

Experimental Group: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dependent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Controlled variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Identify the sample and population of the above experiment. (2 marks)

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c) Write an **operational** hypothesis for the above experiment. (3 marks)

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d) Identify **two (2)** ways the researcher can ensure confidentiality in this experiment.

(2 marks)

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e) The experimenter requested parental consent for each participant. **Explain** informed consent and suggest why the experimenter needed parental consent from each participant.

(3 marks)

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f) The data was collected using a quantitative measure. Identify **one (1)** example of a quantitative data collection method and **one (1)** advantage of using this method. (2 marks)

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**Question 2 Total 9 marks**

A school teacher wanted to research the relationship between the amount of sleep her students had each night and their test results.

The results were graphed below:

**Figure 1: Relationship between amount of sleep and test scores**

Amount of sleep (hrs)

Test scores (%)

a) Identify the strength and direction of the above data. (2 marks)

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b) Does the above data show that the more sleep you receive in a night causes better test scores? Explain your response.

(2 marks)

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c) i) Identify the type of graph used in this research. (1 mark)

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ii) Identify the type of variables used in this research. (1 mark)

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d) Define reliability and give a way it can be improved (2 marks)

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e) Define validity: (1 mark)

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**End of Section One**

**Section Two: Short Answer 55% (68 Marks)**

This section has five (5) questions. Answer all questions. Write your answers in the spaces provided.

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Suggested working time: 60 minutes

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**Question 3 Total 14 Marks**

a) Define the term *intelligence*. (1 mark)

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b) Discuss the differences between general and specific intelligence (2 marks)

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c) Identify the following theories/theorists, from the descriptors below:

1. The theorist responsible for emotional intelligence. (1 mark)

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1. The theorist who introduced the idea of IQ. (1 mark)

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1. A measure of a person's psychological abilities in comparison to the number of years it takes for an average child to reach the same level. (1 mark)

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d) Complete the table below regarding multiple intelligences: (4 marks)

|  |  |
| --- | --- |
| **Type of intelligence** | **Explanation** |
|  | Use of written and spoken language |
| Spatial |  |
|  | Ability to understand your own thoughts and feelings |
| Logical |  |

e) Group testing is used when needing to find information quickly.

1. Identify **one (1)** disadvantage of group testing. (1 mark)

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1. Identify when individual testing would be used. (1 mark)

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1. Identify **one (1)** advantage and **one (1)** disadvantage of individual testing.

(2 marks)

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Question 4 Total 17 Marks

The cerebral cortex is known to be the part of the brain that helps us to think, act and behave.

a) Identify and explain the functions of these **2** lobes of the brain: (4 marks)

Frontal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Temporal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Describe the difference between a “still” brain scan and a “dynamic” brain scan and give an example of each. (4 marks)

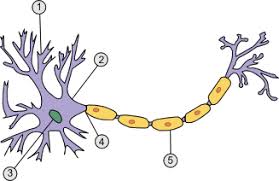
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c) Give 2 characteristics of each of the following brain waves:

(4 marks)

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d) Please label the following five parts of the neuron on the diagram below: (5 marks)



**Question 5 Total 11 Marks**

a) Before drifting off to sleep Melinda sat up and started to write and analyse a list of all the things she needed to do the next day.

1. Identify the hemisphere of the brain she would be using to compose her list.

(1 mark)

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1. If Melinda is left handed which hemisphere of the brain would help her to move her hand to write the list.

(1 mark)

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1. Identify the part of the brain that controls heart rate, breathing rate, reflexes and sleep. (1 mark)

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b) While Melinda sleeps, she always has the airconditioner on. In the middle of the night, the air conditioner starts to wear out and changes the pitch and loudness of the noise it makes, which wakes her up.

**List and explain** the types of adjustments Melinda is exhibiting in response to this stimuli.

(4 marks)

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c) Sleeping is known to be an altered state of consciousness, however, having your eyes closed doesn’t necessarily mean you are asleep. Identify and explain **two (2)** physiological response measures that a doctor could use to show what state of consciousness Melinda was in.

(4 marks)

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**Question 6 Total 16 Marks**

1. *Dr. Pym walks into the kitchen at his office and sees a delicious looking slice of chocolate cake on the counter. He loves chocolate cake and wants to eat it but he knows that the cake does not belong to him.*

Explain Dr. Pym’s struggle using Freud’s psychodynamic theory of personality:

(6 marks)

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b) Describe Eyesenck’s theory of personality: (6 marks)

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c) Describe 2 strengths and 2 weakness of Maslow’s humanistic theory: (4 marks)

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Question 7 Total 10 Marks

a) Describe the difference between sensation and perception. (2 marks)

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b) Explain how visual illusions work and give a specific example by naming and drawing it.

(4 marks)

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c) Fill in the table below: (4 marks)

|  |  |
| --- | --- |
| **Sensory Organ** | **Stimulus** |
| Nose |  |
|  | Pressure |
| Tongue |  |
|  | Light |

**End of Section Two**

**Section Three: Extended Answer 25% (46 Marks)**

This section contains two (2) questions, you must answer BOTH.

Pages are included at the end of the two questions for planning and writing your answers.

* Planning: If you use a page for planning, indicate this clearly at the top of the page.
* Answering the question: In the pages provided indicate clearly the number of the question you are answering.
* You should refer to relevant psychological concepts, theories and research in your answer.

Suggested working time: 60 minutes

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

Question 8 26 Marks

Drugs and physical activity have been found to alter a person’s brain function and mental well-being.

Discuss how physical activity and drugs can alter a person’s brain function and mental well-being.

Identify and discuss **two (2)** methods for investigating brain function.

In your answer, you should:

* Define relevant terms.
* Refer to relevant research related to physical activity that support the above statement.
* Discuss how drugs can alter a person’s brain function and well-being.
* Identify and discuss **two (2)** methods for investigating brain function.

**Question 9 Please answer both parts 20 Marks**

**Part A:**

An employer is looking at the suitability of personality testing for the screening of job applicants. As an expert, they have come to you to get more information. Please tell them what a personality test is, the difference between a personal inventory and a projective test, an example of each, the strengths and weaknesses of each and how each could be used for the hiring of a new employee.

**Part B:**

The same employer was also looking to get information on selective and divided attention. Please describe these terms along with any other relevant terms so they can understand how to make their employees more productive.

Question Number:

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**END OF EXAMINATION**