

Semester One Examination 2019

Question/Answer Booklet

Psychology Unit 1

Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Time allowed for this paper

Number of additional answer booklets used (if applicable):

Reading time before commencing work: ten minutes

Working time: two and a half hours

Materials required/recommended for this paper

*To be provided by the supervisor*

This Question/Answer booklet

*To be provided by the candidate*

Standard items: pens (blue/black preferred), pencils (including coloured), sharpener, correction fluid/tape, eraser, ruler, highlighters

Special items: non-programmable calculators approved for use in this examination

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 material. If you have any unauthorised material with you, hand it to the supervisor **before** reading any further.

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Structure of this paper

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Section | Number of  questions available | Number of questions to  be answered | Suggested working time (minutes) | Marks available | Percentage  of  examination |
| Section One  Research methods | 3 | 3 | 30 | 21 | 20 |
| Section Two  Short answer | 4 | 4 | 60 | 31 | 55 |
| Section Three  Extended answer | 2 | 2 | 60 | 51 | 25 |
|  |  |  |  | **Total** | 100 |

**Instructions to candidates**

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

the *Year 12 Information Handbook 2019*. Sitting this examination implies that you agree

to abide by these rules.

1. Write your answers in this Question/Answer booklet preferably using a blue/black pen.

Do not use erasable or gel pens.

1. Answer the questions according to the following instructions.

Sections One and Two: Write your answers in this Question/Answer booklet. Wherever possible, confine your answer to the line spaces provided.

Section Three: Consists of two questions. You must answer both questions.

1. You must be careful to confine your answers to the specific questions asked and to follow

any instructions that are specific to a particular question.

1. Supplementary pages for planning/continuing your answers to questions are 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% (21 Marks) |

This section has **three** questions. Answer **all** questions. Write your answers in the spaces

provided.

Supplementary pages for planning/continuing your answers to questions are 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.

Suggested working time: 30 minutes.

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**Question 1 (9 marks)**

Gretel read that using a warm (yellow coloured) light while studying helped to increase retention of information as opposed to cool (blue toned) lighting and was interested to test this theory with high school students. She recruited 150 students from Years 11 and 12 at three different high schools near her research centre and divided them into two groups; those that would work under warm lighting, and those that would work under cool lighting. She gave each group 30minutes to remember as many items on a list as possible, before turning both rooms’ lights to neutral tones and giving both groups the same distractor task for 10 minutes. Following this, she asked participants to write down as many items as they could remember from the list.

1. Is this study experimental or non-experimental? (1 mark)

1. Explain the difference between an experimental and non-experimental study. (2 marks)

1. What is the sample and population for this study? (2 marks)

Sample:

Population:

**Question 1** (continued)

1. Name and describe **two** ethical considerations that Gretel should have taken into account when conducting her study. (4 marks)

**Question 2** **(15 marks)**

1. Describe what is meant by the term ‘variable’. (1 mark)

1. Define the terms independent and dependent variable. (2 marks)

1. What is an uncontrolled variable? (1 mark)

**Question 3 (8 marks)**

Jed conducted a study comparing the average hours his classmates spent on social media to how many times they recorded having been bullied (online or in person) in the previous month. He circulated a survey asking his classmates how many hours a day they spent on social media and how often they feel they have been bullied in the last month. His raw results are below.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Participant** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| Hrs on Social Media (daily) | 8 | 5 | 4 | 5 | 9 | 6 | 5 | 4 | 2 | 8 |
| Report being bullied (month) | 12 | 8 | 7 | 7 | 9 | 8 | 6 | 6 | 1 | 10 |

1. Give the mean, mode and median number of hours spent on social media daily by Jed’s classmates. (3 marks)

Mean:

Mode:

Median:

1. What is the range reported by Jed’s classmates of how often they were bullied in the last month? (1 mark)

1. What does the range tell us in a set of data? (1 mark)

1. Was the data collected in Jed’s study qualitative or quantitative? Explain your answer. (2 marks)

**End of Section One**

|  |  |
| --- | --- |
| **Section Two: Short answer** | **55% (31 Marks)** |

This section has **six** questions. Answer **all** questions. Write your answers in the spaces

provided.

Supplementary pages for planning/continuing your answers to questions are 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.

Suggested working time: 90 minutes.

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**Question 4 (11 marks)**

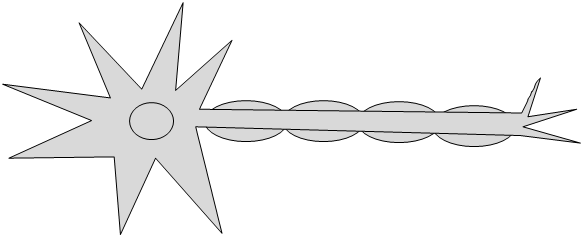
1. Complete the table below. (6 marks)

|  |  |  |
| --- | --- | --- |
| **Brain Section** | **Location** | **Function** |
| Hindbrain |  |  |
| Midbrain |  |  |
| Forebrain |  |  |

1. What is the function of the corpus callosum? (1 mark)

**Question 4** (continued)

1. Label the **four** major parts of the neuron below. (4 marks)



**Question 5 (9 marks)**

1. For the following scenarios, suggest which brain scanning technique would be most appropriate. Give **one** reason for each answer.
2. Bing has been suffering from strange seizures, doctors are wanting to scan his brain to see where these seizures are occurring. Bing also has a metal pacemaker helping his heart. (2 marks)

* 1. Jessica is having sleeping issues and doctors think her body may be having trouble changing brain wave patterns. (2 marks)

* 1. Elrich is having trouble seeing but his eyes are both fine, doctors think he may have a growth in his brain. (2 marks)

1. Phineas Gage is a very famous case study looking at brain injury and its impact. Briefly describe the where the damage was caused in Phineas’ brain and the impacts it had on

him as a person. (3 marks)

**Question 6 (10 marks)**

1. Explain the difference between sensation and perception when it comes to psychology.

(2 marks)

1. Differences in how people perceive the world explains visual illusions; define the term

visual illusion. (1 mark)

1. While writing a psychology exam, Lateesha habituated to the sound of the clock in the corner.
2. Define the term habituation. (1 mark)

* 1. Define the term dishabituation. Give an example of this occurring in Lateesha’s situation. (2 marks)

1. Xian-Li and Sandra are studying together in the library. Give an example of selected and divided attention in this scenario. (2 marks)

1. Why do psychologists use physiological responses to measure states of consciousness rather than other measures, such as self-report? (2 marks)

**Question 7 (12 marks)**

1. Miles is 18 and sat the Stanford-Binet intelligence test, and gained a mental age of 16. Calculate his IQ and show your working. (2 marks)

1. What is **one** advantage to using individual intelligence testing instead of group testing?

(1 mark)

1. Define the psychological concept of intelligence (3 marks)

Popular in contemporary intelligence ideas is Gardner’s theory of multiple intelligences, originally seven areas of unique intelligence.

1. Name and describe **three** of these intelligences. (6 marks)

**End of Section Two**

|  |  |
| --- | --- |
| **Section Three: Extended answer** | **25% (51 Marks)** |

Section Three consists of **two** questions. You must answer **both** questions.

Pages for your answers to Extended Answer questions are provided at the end of this Question/Answer booklet. Indicate on the top of the page which question you are answering.

Suggested working time: 60 minutes.

**Question 8 (27 marks)**

Twins, Mei and Lia, could not be more different from one another. Mei has always been heavily into her sports, representing state in both water polo and cross country, while Lia became involved with cannabis, alcohol and amphetamines.

Discuss the short and long term affects that each of these factors may have on the girls’ behaviour, emotions and thoughts.

In your answer, you should:

* define key terms
* discuss the impact of physical activity on Mei
* discuss the psychological and physiological responses Lia would be experiencing
* refer to psychological evidence to support your response

**Question 9 (24 marks)**



Charlie is showing off some visual illusions to his brother Alex. One of the illusions he shows is above, showing a lion’s face in the branches of a tree. However, Alex cannot see the lion because he keeps getting distracted, so takes this as proof that he’s not smart.

* Explain how this visual illusion works, using two principles of visual perception
* Explain the type of attention Alex is using, and explain which type he should use instead
* Explain two ways that Alex could test his intelligence
* Refer to psychological evidence to support your response

**End of questions**

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