

**Psychology**

**AEPSY Examination Semester One 2015**

**Question/Answer Booklet**

|  |  |  |
| --- | --- | --- |
| Student Name: |  | |
|  |  | |
| Teacher Name: | |  |

### *Time allowed for this paper*

Reading time before commencing work: Ten minutes

Working time for paper: Two and a half hours

### *Material required/recommended for this paper*

# To be provided by the supervisor

Question / answer booklet

# To be provided by the candidate

Standard items: Pens, pencils, eraser, correction tape/fluid, ruler, highlighter

Special items: Non-programmable calculator

# 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.

**AEPSY PSYCHOLOGY Year 11**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Section | Number of questions | Number of questions to be attempted | Suggested working time  (minutes) | Marks Available | Marks  Awarded | Percentage of exam | For Teacher Use |
| Section One:  Research Methods | 3 | 3 | 40 | 28 |  | 20% |  |
| Section Two:  Short Answer | 26 | 26 | 100 | 100 |  | 55% |  |
| Section Three:  Extended Answer | 2 | 2 | 40 | 30 |  | 25% |  |
|  |  |  |  | **TOTAL** |  | 100 |  |

**Instructions to candidates**

1. Write your answers in this Question/Answer Booklet.

2. 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.

3. 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.

* If you require more space for Section Three: Extended Answer than what is provided, please ask your examination supervisor for another booklet to complete your response.

**AEPSY: Semester One Examination 2015                        AEPSY PSYCHOLOGY Year 11**

**Section One: Research Methods (20%)**

This section has 3 (Three) questions. Attempt ALL questions.

Suggested working time:    40 minutes

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**Question 1                                                                                                                             (9 marks)**

An experiment was conducted to determine the effect of meditation on memory.  Researchers randomly divided 100 Year 11 students into two groups, with 50 participants in each group. Group One participated in 20 minutes of meditation before the test while Group Two did not participate in meditation. All participants sat a memory recall test at the same venue at the same time. The test required participants to recall as many words as possible from a list of 20 words they had been shown earlier.

(a)               State the independent variable.                                                                                  [1 mark]

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(b)             List **two (2)** variables the researchers controlled in this study.                                    [2 marks]

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(c)            Write a hypothesis for this study.                                                                                [2 marks]

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(d)           Identify **two (2)** ethical considerations relevant to this study. For each consideration, identify how the researchers should deal with it.

[4 marks]

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**Question 2                                                              (10 Marks)**

A psychologist conducted a study to investigate the relationship between the total number of hours of television watched and the total number of hours of sleep over seven days. Seven volunteer participants recorded for seven days the number of hours of television they watched and the number of hours they slept. The results of the study are shown in the table below.

|  |  |  |
| --- | --- | --- |
| **Participant Number** | **Total number of hours of television watched** | **Total number of hours sleep** |
| 1 | 35 | 45 |
| 2 | 14 | 50 |
| 3 | 9 | 58 |
| 4 | 8 | 60 |
| 5 | 5 | 64 |
| 6 | 2 | 67 |
| 7 | 8 | 62 |

The mean number of hours of television watched was 11.57 hours.

(a)            Identify the mode of the number of hours of television watched.                           [1 mark]

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(b)             Identify the median of the number of hours of television watched.                  [1 mark]

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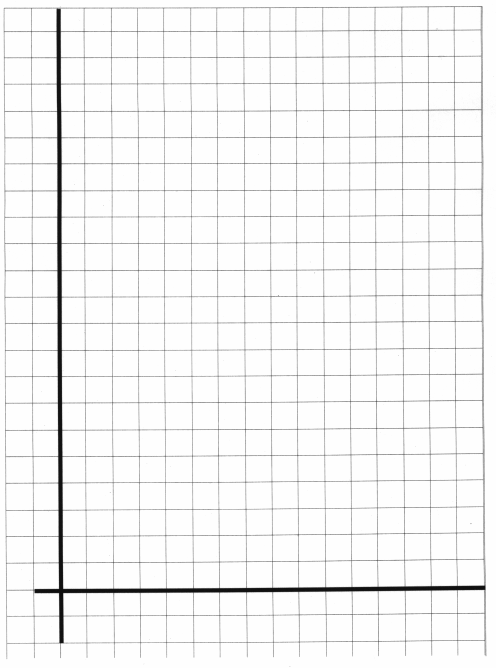
(c)             State **one (1)** advantage of using the median instead of the mean as a measure of central tendency.                                                                                                     [1 mark]

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2 (d)               Plot a scattergram of the results on the grid below.                                           [3 marks]

**Total number of hours of television watched and total number of hours slept over seven days**

****

(e)           Name the type of relationship between the scores shown in the scattergram.          [1 mark]

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(f)             State a conclusion that the researcher could draw from the results of the study.        [1 mark]

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(g)            Identify whether this is an experimental or non-experimental study and give a reason for your answer.                                                                                                               [2 marks]

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**Question 3                                                                                                                            (9 marks)**

A researcher wanted to find out whether the presence of nicotine in the bloodstream is linked to sleep loss, specifically sleep loss resulting from spending more time trying to fall asleep. In order to test this belief, one group of 15 volunteer students who were smokers and enrolled in the first year of the Psychology course at a Victorian regional university (Group 1) were required to attend the university’s gym at 9.00 pm on Tuesday evening, smoke ten, 8 mg cigarettes during a 90-minute period whilst listening to classical music, and then go to sleep as quickly as they could in one of the standard single beds at the other end of the gymnasium.

On Friday evening later that week, the procedure was repeated with another group of 12 volunteer smokers who were also enrolled in the first year Psychology course (Group 2). However, participants in this group were not permitted to smoke any cigarettes in the one-hour period before being asked to go to sleep in one of the beds.

Both groups were carefully observed from outside the gym by two research assistants through a monitor hooked up to infra-red cameras. The research assistants recorded the precise time when each participant was observed to fall asleep.

The results showed that Group 1 took a mean (average) time of 43 minutes to fall asleep; whereas Group 2 took a mean time of 41 minutes to fall asleep. The researcher concluded that neither smoking nor the presence of nicotine in the bloodstream cause sleep loss.

(a)        Identify the population for the experiment.                                                                   [1 mark]

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(b)       Is the researcher collecting qualitative or quantitative data?                             [1 mark]

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(c)       Identify the independent and dependent variables.                                             [2 marks]

IV:      \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_\_\_\_\_\_\_\_\_\_

DV:    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_\_\_\_\_\_\_\_\_\_

(d)       Identify the experimental and control groups.                                                             [2 marks]

EG:    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_\_\_\_\_\_\_\_\_

CG:    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­\_\_\_\_\_\_\_\_\_\_

3 (e)     Explain whether the conclusion made by the researcher is justified.         [3 marks]

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**End of Section One**

**Section Two: Short Answer Questions (60%)**

**Section includes topics of: Biological Influences, Cognition, Communication and Relational Influences**

This section has 26 (Twenty-six) questions. Attempt ALL questions.

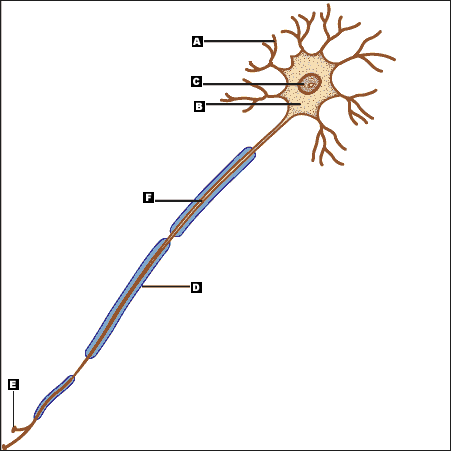
Suggested working time:    100 minutes

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**Biological Influences**

**Question 1                                                                                                                            (3 marks)**

(a)        Using the diagram of a neuron below: [3 marks]

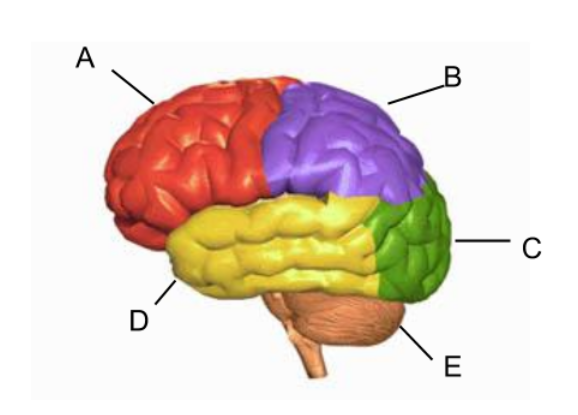


Name the neuron parts labelled A, D and E and state their function.

|  |  |  |
| --- | --- | --- |
| **Label** | **Name** | **Function** |
| **A** |  |  |
| **D** |  |  |
| **E** |  |  |

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**Question 2                                                                                                                           (10 marks)**



Using the above diagram of the brain, complete the table describing major functions of each lobe

|  |  |  |
| --- | --- | --- |
| Label | Lobe / Part of the brain | Major  functions |
| A |  |  |
| B |  |  |
| C |  |  |
| D |  |  |
| E |  |  |

[10 marks]

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**Question 3                                                                                                                            (5 marks)**

Phineas Gage received an injury whilst working on a railway project.

1. Recall the lobe that sustained the damage. [1 mark]

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1. List two functions of this lobe [2 marks]

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1. Initially, Gage’s personality changed.  Explain why this occurred. [2 marks]

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**Question 4                                                                                                                           (2 marks)**

Rhonda is a talented painter and is excelling in her visual arts class.  However, she struggles in some of her other classes, particularly mathematics.  Her mother tells her that she is a ‘right-brain’ thinker.  This is a common oversimplification.  Explain what is wrong with this comment. [2 marks]

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**Question 5                                                                                                                           (4 marks)**

A patient presents at Rockingham General Hospital in an agitated state and is experiencing a rapid heart rate and excess sweating. The emergency physician surmises that the patient has taken an illicit drug.

1. Infer a name of a drug the patient has taken. [1 mark]

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1. Every drug can be classified by its mechanisms of action.  Classify this drug according to its effects on the body and explain the presenting symptoms. [1 mark]

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1. Recreational drugs are external chemicals that affect the functioning of the human body. List two (2) effects of a depressant drug on a person’s behaviour.                                    [2 marks]

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**Question 6                                                                                                                           (4 marks)**

A person has started to notice a constant headache that doesn’t seem to be going away and is affecting their ability to go about their daily lives in relation to functioning, completing tasks and movement. The person has seen a doctor and the doctor has recommended some brain function testing. Outline two (2) possible test options and explain the process of each. [4 marks]

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**Question 7                                                                                                                           (4 marks)**

List **two** effects of the hormone adrenalin in a **‘flight or fight’** response. [4 marks] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Cognition**

**Question 8 (2 marks)**

How do psychologists define ‘altered state of consciousness? Give an example of an altered state of consciousness.                                                                                                         [2 marks]

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**Question 9                                                                                                                         (2 marks)**

Name two physiological responses indicating different states of consciousness

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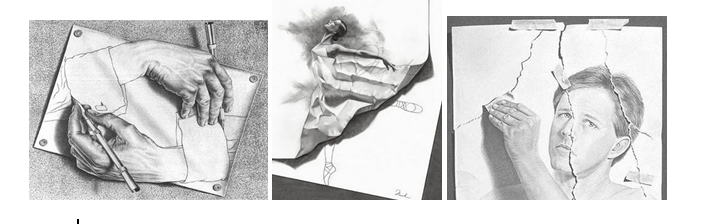
**Question 10                                                                                                                         (5 marks)**

1. State two reasons why psychologists study illusions.      [2 marks]

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1. Using your understanding of **perception**, explain why you see images as ‘illusions’, the longer you look at the pictures.                                                                              (3 marks)

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**Question 11**                                                                                                               **(4 marks)**

Intelligence testing is used by many organisations to assess the suitability of job applicants for employment.

1. Identify one advantage and one disadvantage of individual intelligence testing.

[2 marks]

Advantage

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Disadvantage

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1. Identify one advantage and one disadvantage of group intelligence testing. [2 marks]

Advantage

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Disadvantage

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**Question 12**                                                                                                               **(2 marks)**

Identify two strategies that can be used by a researcher to help reduce cultural bias in testing.

[2 marks]

One:

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Two:

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**Question 13**                                                                                                               **(5 marks)**

Complete the following table detailing the different theories/theorists associated with intelligence.    [5 marks]

|  |  |
| --- | --- |
| **Name of Theorist** | **Overview of Theory** |
|  | Intelligence is thought to be a combination of both general intelligence (g) and specific intelligence (s). |
| Simon and Binet |  |
|  | Empirical model of intelligence. Developed tests to measure intelligence in adults as well as children. |
| Gardner |  |
|  | EQ can matter more than IQ – it can help effective social interaction with others. |

**Question 14**                                                                                                               **(2 marks)**

Holly has just obtained her driver’s license, and is excited about being able to drive her own car. Holly understands that it would be extremely dangerous for her to drive her new car and talk on a mobile phone at the same time. Explain, in terms of types of attention, why it is dangerous to carry out both tasks simultaneously? [2 marks]

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**Question 15**                                                                                                               **(3 marks)**

Wild chimpanzees in Africa have become ‘used to’ the people how make observations about them.

1. Identify the psychological term for this process. [1 mark]

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After some time, one of the chimps seemed to ‘notice’ the observer.

1. Identify the psychological term for this process. [1 mark]

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1. Explain the underlying mechanisms required for the process named in part b above. [1 mark]

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**Question 16**                                                                                                               **(1 mark)**

Identify one situation when the ‘Stroop Test’ would be inappropriate to use on a participant. [1 mark]

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**Relational Influences**

**Question 17**                                                                                                               **(4 mark)**

1. Name and provide an example of each of the three determinants of liking. [3 marks]

|  |  |
| --- | --- |
| **Determinant of Liking** | **Example** |
|  |  |
|  |  |
|  |  |

1. Using one of the determinants of liking, explain how a friendship can break down. (1 mark)

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**Question 18**                                                                                                               **(3 mark)**

Name and provide an example of each of the three theories of attraction. [3 marks]

|  |  |
| --- | --- |
| **Theories of Attraction** | **Example** |
|  |  |
|  |  |
|  |  |

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**Question 19**                                                                                                               **(3 mark)**

Define the following terms: [3 marks]

1. Clique \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Crowd

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1. Dyad

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**Question 20**                                                                                                               **(5 mark)**

Explain Dunphy’s (1963) five stages of adolescent relationships. [5 marks]

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**Question 21**                                                                                                               **(9 marks)**

Answer the following questions in regards to behaviour.

1. Distinguish altruistic behaviour from ordinary helping behaviour. [2 marks]

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1. Describe the bystander effect. [2 marks]

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1. Define aggressive behaviour. [1 mark]

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1. Complete the following table. [4 marks]

|  |  |  |
| --- | --- | --- |
| Behaviour | Definition | Example |
| Pro-Social |  |  |
| Anti-Social |  |  |

**SEE NEXT PAGE**

**Communication**

**Question 22                                         (4marks)**

Communication plays an important role in the initiation, maintenance and regulation of relationships.

1. Define ‘effective communication’.        [1 mark]

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1. Effective communication defines our adult interactions and relationships. State one obstacle to effective communication. [1 mark]

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1. Psychologists are often consulted when there are problems in a relationship. Assertive communication strategies are used to promote the honest expression of opinions and feelings without infringing on the rights of others in a relationship. Describe any two of the main steps a psychologist may use to teach assertive communication. [2 marks]

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**Question 23                                         (4 marks)**

Identify two (2) of Robinson’s (2003) social skills and explain how they contribute to communication. [4marks]

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**Question 24                                     (4 marks)**

Explain two (2) non-verbal communication techniques that can portray a message. [4 marks]

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**Question 25                                        (4 marks)**

Describe two (2) interventions that may be used to help individuals with delayed and/or impaired communication skills. [4 marks]

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**Question 26                                        (2 marks)**

Describe two (2) cultural differences in non-verbal communication. [2 marks]

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**End of Section Two**

**Section Three: Extended answer 25%                         (30 Marks)**

This section contains two (2) questions. You must answer **BOTH** questions.

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

● Planning: If you use a page for planning, indicate this clearly at the top of the page.

● You should refer to relevant psychological concepts, theories and research in your answer.

Suggested working time: 40 minutes.

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**Question One:**                 [15 marks]

It is important to consider the possible contribution of both biological and environmental factors in order to understand what underlies development. Researchers agree that both nature and nurture are factors influencing the development of most psychological characteristics, and these two factors interact with each other in various subtle ways. Which do you believe has the greater influence on psychological development – heredity or environment? Give reasons for your answer. To what extent is your answer dependent on the type of psychological characteristic?

In your response, you should:

* Begin with a broad evaluation of the statement, including definitions of any terms you consider necessary
* Define the nature and nurture debate
* Describe at least two studies that have influenced your understanding of this topic
* Describe examples of biological and environmental factors that can influence the psychological development of any characteristic(s)
* Name theorists and their theories where appropriate
* Describe each theory and the evidence that is used to support it.
* Finish with a conclusion

**Question Two:**          [15 marks]

Part of the role of a psychologist is to assess people’s intelligence in workplaces. Different theories of intelligence include the intelligence quotient (IQ), emotional intelligence and multiple intelligences. Describe **two** of these different theories of intelligences and how they may be used to understand an individual.

In your answer, you should:

* Define intelligence, IQ, emotional intelligence and multiple intelligences.
* Describe how an understanding of different theories of intelligence may be useful.
* Refer to theorists related to different understandings of intelligence.
* Finish with a conclusion

Question \_\_\_\_\_\_\_

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