SPECIMEN MATERIAL

AS
PSYCHOLOGY
(7181/2)

Paper 2 Psychology in Context - Biopsychology end of Unit test

2016 Morning Time allowed: 40 minutes

Materials

For this paper you may have:
- a calculator.

Instructions
- Use black ink or black ball-point pen.
- Fill in the boxes at the bottom of this page.
- Answer **all** questions. You must answer the questions in the spaces provided. Do **not** write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 32
- Questions should be answered in continuous prose. You will be assessed on your ability to:
  - use good English
  - organise information clearly
  - use specialist vocabulary where appropriate.

Please write clearly, in block capitals, to allow character computer recognition.

Centre number ☐☐☐☐☐ Candidate number ☐☐☐☐

Surname

Forename(s)

Candidate signature _____

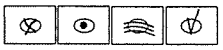
Section A

Approaches in Psychology

Answer **all** questions in this section

Only **one** answer per question is allowed.

For each answer completely fill in the circle alongside the appropriate answer.

CORRECT METHOD  WRONG METHODS 

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

0 1 . 1 Complete the following sentence. Shade **one** box only.

Sensory neurons carry information

A away from the brain. ⬭

B both to and from the brain. ⬭

C towards the brain. ⬭

D within the brain. ⬭

[1 mark]

0 1 . 2 Complete the following sentence. Shade **one** box only.

The somatic nervous system

A comprises of two sub-systems. ⬭

B connects the central nervous system and the senses. ⬭

C consists of the brain and spinal cord. ⬭

D controls involuntary responses. ⬭

[1 mark]

0 3 Which **one** of the following responses results from the action of the sympathetic division of the autonomic nervous system? Shade **one** box only.

A Decreased pupil size ⬭

B Increased digestion ⬭

C Increased heart rate ⬭

D Increased salivation ⬭

[1 mark]

0 4 Label the **two** areas of the synapse in **Figure 1** by putting the appropriate letter in each box.

A Axon

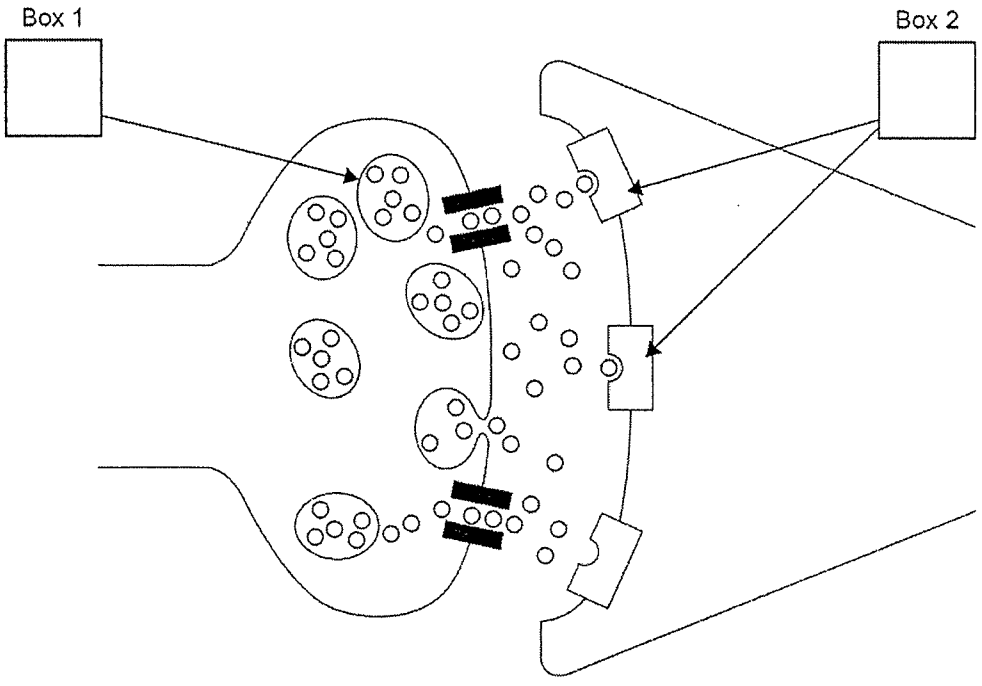
B Dendrites

C Neurotransmitters

D Receptor sites

E Vesicle

Figure 1: The synapse



[2 marks]

Section B

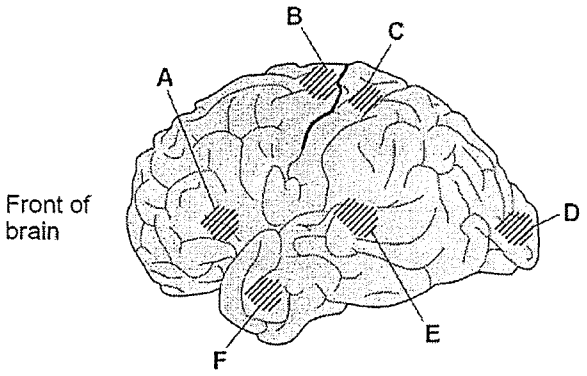
Biopsychology

Answer **all** questions in this section

0 5 Read the item and then answer the questions that follow.

Figure 1 shows the left hemisphere of the human brain. Six areas of cortical specialisation are labelled **A**, **B**, **C**, **D**, **E** and **F**.

Figure 1: Left hemisphere of the human brain



Using your knowledge of localisation of function in the brain, identify the area of cortical specialisation. Shade **one** box only for each area.

0 5 . 1 Broca's area

A ○ B ○ C ○ D ○ E ○ F ○

[1 mark]

0 5 . 2 Somatosensory cortex

A ○ B ○ C ○ D ○ E ○ F ○

[1 mark]

0 5 . 3 Visual cortex

A ○ B ○ C ○ D ○ E ○ F ○

[1 mark]

0 5 . 4 Wernicke's area

A ○ B ○ C ○ D ○ E ○ F ○

[1 mark]

0 5 . 5 Motor cortex

A ○ B ○ C ○ D ○ E ○ F ○

[1 mark]

Section B

Biopsychology

Answer **all** questions in this section

0 6 Outline the role of adrenaline in the fight or flight response.

[4 marks]

0 7 Robert suffered a stroke at the age of 55. After the stroke he was paralysed down his right side, though he could move his left arm and leg easily. Robert could clearly understand what was said to him, but was unable to produce any speech.

Discuss how knowledge of hemispheric lateralisation and language centres in the brain has helped our understanding of cases such as Robert's. Refer to Robert's case in your answer.

[12 marks]

You may use this space to plan your answer.

0 8

Outline the structures and processes involved in synaptic transmission.

[6 marks]

Extra space