

**AQA, OCR, Edexcel**

**GCSE Science**

# **GCSE Biology**

The Brain Answers

Name:

**M M E**

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Total Marks: /15

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Q1: What are the meninges.

A= Brain protective membranes.

(1 mark)

Q2: Which description best represents the texture of the brain? Circle one answer.

Wood

Muscle

Set Yogurt

Smoothie

Steel

(1 mark)

Q3: What role does the cerebral cortex carry out?

A= Accept any 2 of the following:

- Memory
- Language
- Consciousness
- Intelligence

(2 mark)

Q4: Which component of the brain is responsible for coordinating muscle activity?

A= Cerebellum

(1 mark)

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Q5: Explain the role of the medulla and give an example.

A= 1 mark for role and 1 mark for example:

- Controls unconscious activity
- E.g.:
  - Heart beat
  - Gut/ Digestion
  - Breathing

(2 marks)

Q6: What is the role of the pituitary gland?

A= Produces hormones

(1 mark)

Q7: Why is brain surgery performed on conscious patients?

A= No nerve endings in the brain.

(1 mark)

Q8: Explain why MRI scans are used as part of research into how the brain works.

A= Accept any 3 of the following:

- None invasive
- Can see active regions/ areas
- Can cross link functions
- ID areas used for specific tasks

(3 marks)

Q9: Explain why treating conditions' affecting the brain is difficult.

A= Accept any 2 of the following:

- Drugs don't always reach brain
- Blood/ brain barrier
- Surgery hard as brain not fully understood
- Many areas of brain interact

(2 marks)

Q10: Explain the role of the skull.

A= Protect the brain

(1 mark)