7.11 The Influence of Science on Belief in the Existence of God: 10-minute Pack

AQA 8062 · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions.

1 Which one of the following best describes the Big Bang theory as used in discussions about the origin of the universe?

- ☐ A. The idea that the universe has always existed in the same state
- ☐ B. The hypothesis that the universe began from a very hot, dense state and expanded
- ☐ C. The belief that the universe is an illusion created by human minds
- ☐ D. The view that stars are made from divine breath

(Total for Question 1 is 1 mark)

2 Define the term 'evolution' as it is used in discussions about human origins and science.

(Total for Question 2 is 1 mark)

3 State two features of the scientific method that are relevant when scientists investigate the origins of the universe.

(Total for Question 3 is 2 marks)

4 Give two key features of Charles Darwin's theory of evolution by natural selection, as it is used in debates about human origins.

(Total for Question 4 is 2 marks)

© Revision Library | revisionlibrary.co.uk

5 Give three types of scientific evidence that support the theory of evolution when explaining the development of life on Earth.

(Total for Question 5 is 3 marks)

6 Give three reasons why some people claim scientific explanations make belief in God unnecessary, in debates about origins and meaning.

(Total for Question 6 is 3 marks)

© Revision Library | revisionlibrary.co.uk

Mark scheme · 7.11 The Influence of Science on Belief in the Existence of God: 10-minute Pack

Question 1

selecting B as the correct description of the Big Bang theory **B1**

Answer: B

Question 2

a concise definition such as: change in species over generations by genetic variation and natural selection, oe **B1**

Answer: Change in species over generations due to inherited variation and natural selection.

Question 3

use of empirical evidence such as observations and measurements, oe **B1**

testing and revising theories in light of new data, oe **B1**

Answer: Use of empirical evidence; testing and revising theories based on new data.

Question 4

inherited variation exists between individuals in a species, oe **B1**

organisms with advantageous variations are more likely to survive and reproduce, passing those traits on, oe **B1**

Answer: Examples: inherited variation between individuals; beneficial traits increase chances of survival and are passed on.

Question 5

fossil record showing transitional forms, oe **B1**

comparative anatomy showing homologous structures, oe **B1**

genetic evidence, such as DNA similarities between species, oe **B1**

Answer: Any three: fossil record; homologous anatomy; DNA/genetic similarities.

Question 6

science provides natural, testable explanations for phenomena previously attributed to gods, oe **B1**

advances in cosmology and biology reduce the gaps where God was used as an explanation, oe **B1**

some argue that supernatural explanations are not needed when regular, natural processes suffice, oe **B1**

Answer: Any three: science provides natural explanations; reduces explanatory gaps; supernatural explanations become unnecessary when natural processes account for phenomena.

© Revision Library | revisionlibrary.co.uk