ONTARIO EARTH AND SPACE SCIENCE, GRADE 12, UNIVERSITY PREPARATION (SES4U) · UNIT C

Recording Earth's Geological History — Practice Test

Ontario Earth and Space Science, Grade 12, University Preparation (SES4U) • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Radiometric dating assumes the decay rate of an isotope has remained**

A Decreasing

B Increasing

C Variable

D Constant

Understand It with Pulse | Flag a mistake

2 **If a sample has 12.5 percent parent remaining, the number of half lives elapsed is**

A 5

B 3

C 2

D 4

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3 **A mineral starts with 160 grams of parent isotope with half life 100 million years. After 300 million years, parent remaining, in grams, is**

ANSWER _____

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4 **Uranium lead dating is used to date very old igneous rocks because uranium has a very long**

A Colour

B Half life

C Mass

D Chain

Understand It with Pulse | Flag a mistake

5 **The oldest Earth rocks dated so far are about**

A 100 million years old

B 500 million years old

C 1 billion years old

D 4 billion years old

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6 **Earth age is estimated at about**

A 13.8 billion years

B 4.6 billion years

C 2.5 billion years

D 500 million years

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7 **The Cambrian explosion refers to a rapid diversification of animal life about 541 million years**

A After humans appeared

B Before Earth formed

C In the future

D Ago

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8 **Ammonites are index fossils for the Mesozoic because they were widespread, abundant, and lived for a relatively short**

A Temperature

B Depth

C Distance

D Time

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9 **A fossil mould is an impression left in rock after an organism decays, while a cast is formed when the mould is filled with**

A Ice

B Water

C Air

D Sediment or mineral

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10 **Trace fossils, such as footprints, record organism activity rather than the organism**

A Habitat

B Body itself

C Age

D Colour

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ANSWER KEY

1.	D	**5.**	D	**9.**	D
2.	B	**6.**	B	**10.**	B
3.	20	**7.**	D		
4.	B	**8.**	D		

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