

GEOLOGY

10113

EXAMPLE EXAM QUESTIONS

1

ATOM WITH 10 PROTONS HAS HOW MANY NEUTRONS?

1. 9
2. 10
3. 11
4. 1, 2 or 3
5. Not knowable

2

WHICH MAGMA WILL BE LEAST VISCOUS?

1. a very hot magma
2. a very gassy magma
3. a silica rich magma
4. a felsic magma

3

WHICH ELEMENTS ARE MOST COMMON IN SILICATE MINERALS?

1. silicon and iron
2. silicon and sodium
3. silicon and magnesium
4. silicon and oxygen
5. silicon and calcium

4

WHICH OF THE FOLLOWING MINERALS IS RICHEST IN IRON?

1. feldspar
2. muscovite
3. olivine
4. pyroxene
5. quartz

5

A MAGMA COOLS UNDERGROUND FOR 10,000 YEARS. IT'S CRYSTALS WILL BE...

1. larger
2. smaller
3. darker
4. lighter
5. greener

6

A _____ IS A CONCORDANT TABULAR BODY.

1. laccolith
2. batholith
3. sill
4. dike
5. harpolith

7

_____ IS THE MOST ABUNDANT GAS IN A VOLCANIC ERUPTION.

1. oxygen
2. carbon dioxide
3. nitrogen
4. water vapor
5. sulfur dioxide

8

ANSWERS

1. 4 - atoms with different numbers of neutrons are various isotopes of the element
2. 1 - least viscous is the most liquid - in this case the hottest magma
3. 4 - silicon and oxygen - the components of the silicon-oxygen tetrahedron
4. 3 - olivine - an iron rich silicate
5. 1 - larger - crystals that cool a long time are larger
6. 3 - sill - concordant/tabular intrusive body
7. 4 - water vapor - also the most abundant greenhouse gas
