

THE UNIVERSITY OF BAMENDA**COMMON ENTRANCE EXAMINATION JULY 2010 SESSION****FIRST CYCLE – GENERAL EDUCATION****PAPER: GEOLOGY (Major)****SERIES: GEOLOGY****DURATION: 3hrs – COEF 4****SECTION A**

Answer all the questions in this section by selecting the correct answer from the letters A, B and C.

1. Crystals are classified into systems based on:
 - A. The number of planes and axes of symmetry
 - B. The number of planes and centers of symmetry
 - C. The symmetry of elements it displays.
2. Choose from the list below the correct order in which the graptolite species evolved:
 - A. Didymograptids → Dendroidgraptolites → Monograptids
 - B. Dendroids → Didymograptids → Monograptids
 - C. Monograptids → Dendroids → Didymograptids
3. Which of the following minerals in igneous rocks would develop zoning during rapid cooling?
 - A. Felsic minerals
 - B. ferromagnesian minerals
 - C. Plagioclase
4. The type of layering produced by regular repletion of the same rock sequence is called:
 - A. Rhythmic layering
 - B. Cryptic layering
 - C. Phase layering
5. Why are contact metamorphic rocks not foliated?

- A. Because they are affected by very high heat that does not permit formation of foliations.
- B. Because they are not affected by stress pressure
- C. Because they are never deeply buried within the Earth
6. Why are contact from the following the common diagenetic process that occurs in limestone rocks.
- A. Cementation B. Compaction C. Recrystallization
7. The type of magnetization acquired by rocks that cooled on the earth's surface is called:
- A. Induced magnetization
- B. Remnant magnetization
- C. Paleo magnetization
8. Which of the following statements is not true
- A. Glaucophane (blue schist) facies occurs in subduction zone
- B. Granulite facies occur where there is partial melting of rocks
- C. Green schist facies are produced during high grade regional metamorphism
9. What will happen if all the chlorofluorocarbons are eliminated from the world?
- A. There will be a sudden rise in the world's temperature
- B. The ozone layer will increase
- C. The CO₂ content of the atmosphere will increase
10. Which of the following igneous rocks contain the highest % of silica?
- A. Granodiorite B. Granite C. Rhyolite

SECTION B

Answer one question only

11. A rock containing 40% quartz, 40% alkali – feldspar, 15% plagioclase (oligoclase) and 5% mica may have been formed by either igneous, metamorphic or sedimentary processes. Choose one rock from each of these major rocks groups,

give the name of the rock, the environment of formation and the criteria you have used to establish the origin of each rock type.

12. On the average, most elements of industrial importance are sparsely distributed in the earth's crust, yet in places they can be worked economically. Discuss how this can occur.

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