Assiut University -Faculty of Science Geology Department



Final Exam of fundamental Geology (G100) For 1st year students-Faculty of Science – Summer semester 2019 Time allowed: 2 Hours

Total marks: 50 marks Write your answers in the same sheets أكتب أجابتك في نفس ورق الأسئلة I- Select or write the correct answer for the following. Each question has ONLY one correct answer (30 marks) 1- Pangaea began to split apart a- About 200 million years ago b. About one billion years ago c. About half million years ago 2-The earth's Core is made up mostly of a. Iron, with some nickel and few minor elements b. Iron, magnesium, silicon, and oxygen combined in varying proportions in several different minerals. c. Silicon, Aluminum, calcium, Sodium and oxygen combined in varying proportions in several different minerals. 3- Earth can be divided into five main layers based on physical properties and hence mechanical strength; - the lithosphere. and inner core. 4- A Continental Rifting will occur when a- one plate carrying oceanic crust collide with another carrying a continental crust b- one plate of continental crust collide with another carrying a continental crust c- two continental plates spread apart 5- Hexagonal crystals have 4 axes, one of them (c axis) being different in length than the other 3 axes (Yes or No)

7- Some minerals, such as mica have

- a. One set of parallel cleavage planes
 b. Two sets of parallel cleavage planes
 c. Three sets of parallel cleavage planes
 d. No cleavage planes
- c. Three sets of parallel cleavage planes

8- The color of a fine powder of mineral is named

9-The Vitreous luster is the luster of

a. Corundum

6- A plane of symmetry is

- b. Quartz
- c. Hematite
- d. Magnetite

10- According to the Mohs hardness scale, the hardness of the mineral calcite =

11- Glass

- . a- is a very fine-grained rock
- b. has no crystalline structure

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- c. is a coarse-grained rock
- 12- From volcanic rocks are; basalt,, and

Mention other two rocks?

13- Intrusive igneous rocks

a- are very fine-grained rocks

b. are medium to coarse-grained rocks

14- The ultra basic rocks have

a- 45% - 52% SiO₂

b. <45% SiO₂

c. >66% SiO₂

15- A crack along which no appreciable movement has occurred is called:

a- Fault

b- Anticline

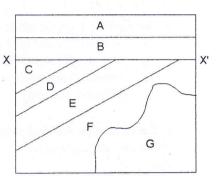
c. Joint

d- Fold

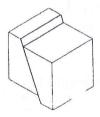
16- Units A, B, C, D, E, and F are sedimentary rock. Unit G is granite.

Which of the following statements is true?

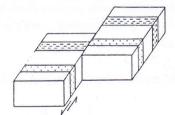
- a. Deposition of unit A occurred before deposition of unit B
- b. Erosion took place before the deposition of unit B
- c. Unit C is younger than unit A



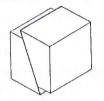
17- Identify the types of the following faults?



1.....



2



3......

18- Chemical weathering can result from the action of:

a- Burrowing by animals

b- Ice wedging

c- Carbonic acid

d- Plant roots

e. All of them

19- Which one of the following features is formed by wave erosion?

a. A barrier island

b. A spit

c. A cave

d. A beach

20- A disconformity is:

a.-a rock unit that does not contain fossils

b.-an erosional surface between igneous and metamorphic rocks

c.-an erosional surface between horizontal layers of sedimentary rocks

d.-a rock unit that is different than units above or below it

. B. The conversion of ca	I reaction in chemical weathering; it is elements iron and copper arbon to coal r to the mineral anhydrite	responsible for:
22- An aquiclude is:a. Porous and permeableb. Impermeable strata the	e Strata that store and transmit	
23- Artesian Well is: a. natural or manmade who be A "cone of depression"	well where water flood to the surface und "develops around the pumping hole warmer than the mean annual air temper	er pressure
24-Desert pavement is:	nd pebbles left behind by deflation	b. An alluvial fand. Salty crust in the desert
a. Of the power of wind c. Deserts are high in elev	h Rocks in the derest	resistant to weathering
26- The following question re Which arrow on the diagram this crescent-shaped sand du A- East	efers to this diagram of a barchan sand i is the correct wind direction to form ne? B-West	dune. WEST EAST
27- When a river meets an or a. Alluvial fan b. delta c. sand bar	cean or sea which depositional featur	e is often formed?
В	am channels ?	
29- Body fossils are the actual and never be found as altered	parts of an organism; they always proones	esent as unaltered bodies
 a. True 30-Which one of the following One of the conditions promote a. Rapid burial and/or lack b. Presence of soft body pa c. Material is trapped inside 	e fossilization is of oxygen rts	



II- Write only on four (4) from the following: (20 marks) لا يلتفت إلى الإجابات الزائدة

1- The characterization of a river in its young stage
2-Classification of igneous rocks based on their occurrences
3- Organic sedimentary rocks
4- Parts of a fold
5-Discuss briefly three properties from the physical properties of minerals
6-The factors affecting the porosity in sedimentary rocks
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