Geology Department Faculty of Sciences Assiut University First level



Part One (Internal Processes)

- I. Complete the following: (7 marks)
 - a. The moving of earth crustal plates few centimeters per year is due to
 - b. In the mantle, the mantle convection cell feature is caused as a result of
 - c. The composition of the earth crust is
 - d. The oceanic crust is higher in relative to continental crust
 - e. Divergent plate boundary caused when the two plates moves from each other
 - f. The type of boundary along which plates slide past each other is
 - g. Where a divergent boundary forms under the ocean it is called a.....

II. Sign the true statements by ($\sqrt{}$) and the false one by (X) (7 marks)

- a. The hardness in graphite and diamond are depend on <u>chemical</u> composition
- b. Planes of weakness due to atomic bonds is named fractures
- c. Minerals are a homogeneous substances
- d. Six-fold and 2-fold symmetry axes are common in the hexagonal system.
- e. Crystals containing a combination of 4-fold, and 2-fold symmetry axes can only occur in the isometric crystal system
- f. Triclinic crystals have perpendicular axes of unequal length
- g. Natural glaciers is mineral, while water is not mineral
- III. Choose the correct answer of the following : (5 marks)
 - a. Extrusive rocks are formed from
 - 1. Magma cooling inside the earth 2. Lava cooling on the earth's surface
 - b. gabbro is

1. Intermediate 2. Acidic 3. Basaic c. clastic sedimentary rocks are classified based on

1. Color 2. Density 3. Grain size

d. In regional metamorphism, the agents of metamorphism are

1. pressure 2. Temperature 3. Both

e. Marble is a result of

1. regional 2. Dynamic 3. Contact metamorphism

IV. Answer the following questions: (6 marks)

- 1. Mention why cubic crystal system has the highest degree of symmetry, while triclinic system has the lowest degree of symmetry?
- 2. What is happen at the boundary, when collision caused between
 a) oceanic continental crusts and
 b) continental continental crust
- 3. Write the differences and similarities between granite and rhyolite rocks.

	rsity		جامعة أسيوط
Faculty of Sci	ience-Geology Dept	1 Link Janu	جامعة أسيوط كلية العلوم- قسم الجيولوجيا
		f fundamental Geology (100 ar students - June, 2 - 2019)G)
Group No	Part II	<u>Time</u> : 1H (one hour)	Total marks: 25
	عات	الامتحان في أربع صفد	
Vrite your answ	ers in th e same sheet	فس ورق الأسئلة	أكتب أجابتك في ن
Part I: Select o	or write the correct an	nswer for the following	(15 Marks)
b. fractures ic. a group of2-Sheet joints ar	n rocks with no moveme wave-like depositional re formed in	i into a series of wave-like ent produced by brittle stra structures that may form d	in irectly in water or in air
a. Granite	b. Basa	alt c. Both of th	em
• • •		1. 41 1. 1 4 1	14 1 1 1
a. Basin		h the oldest rocks occur i c. Dome d. Mc	n its center is called
a. Basin 4- When carbon	b. Anticline ate laden water reache		ve, it loses some of its
a. Basin 4- When carbon dissolved CO	b. Anticline ate laden water reache 2 and calcite precipitat	c. Dome d. Mc	ve, it loses some of its osits called
 a. Basin 4- When carbon dissolved CO a. loess 5-The eroded set 	b. Anticline ate laden water reacher 2 and calcite precipitat b. Silica c. tr urface occurs between	c. Dome d. Mo s the air of a limestone ca es to form limestone depo vavertine (Stalactite & Stala	onocline ve, it loses some of its osits called gmite) d. Marble hic rocks and a serious o
 a. Basin 4- When carbon dissolved CO a. loess 5-The eroded states sedimentary 6- The group of place are call 	b. Anticline ate laden water reacher and calcite precipitat b. Silica c. tr urface occurs between layers is called processes responsible ed:	c. Dome d. Mo s the air of a limestone ca es to form limestone depo vavertine (Stalactite & Stala n igneous or metamorp	ve, it loses some of its osits called gmite) d. Marble hic rocks and a serious o
 a. Basin 4- When carbon dissolved CO a. loess 5-The eroded sedimentary for the group of place are called a. Physical were displayed by the sediment of the sed	b. Anticline ate laden water reacher 2 and calcite precipitat b. Silica c. tr urface occurs between layers is called processes responsible ed: eathering b. Cher ual movement of mater	c. Dome d. Mo s the air of a limestone ca es to form limestone depo vavertine (Stalactite & Stala n igneous or metamorp for the disintegration ar mical weathering c. We	ve, it loses some of its osits called gmite) d. Marble hic rocks and a serious of nd decomposition of rock i athering d. Erosion bserved when you see a tree

.

9- Which one of the following is NOT built by waves depositing sediments (wave deposition)?

a. A spit b. A barrier island c. A beach sand d. An arch

10- Which of the following are Not Typical of wind erosion?a. Alluvial fanb. Deflationc. Blowoutd. Ventifact

11- Mention the type of this sand dune Wind direction Steep slip face

- 12- Wind abrasion can cause polish rock and shape individual stones on the desert floor to develop several polished faces. These polished rocks are called:
 - a. Yardangs b. blowouts c. desert pavements d. ventifacts

13- Just mention the different types of stream channels.

14- The boundary between the saturated zone and the unsaturated zone is called, the:a. Dischargeb. Aquicludec. Water tabled. Ventifact

15- The lowering effect on the water table about the base of the well stem is called:

a. Aquiferb. Perched water tablec. Cone of depressiond. Hydraulic gradient

16- Which value means that the stream gradient is more steep

a. stream gradient = 1.67m/kmb. stream gradient = 5m/kmc. stream gradient = 1m/km

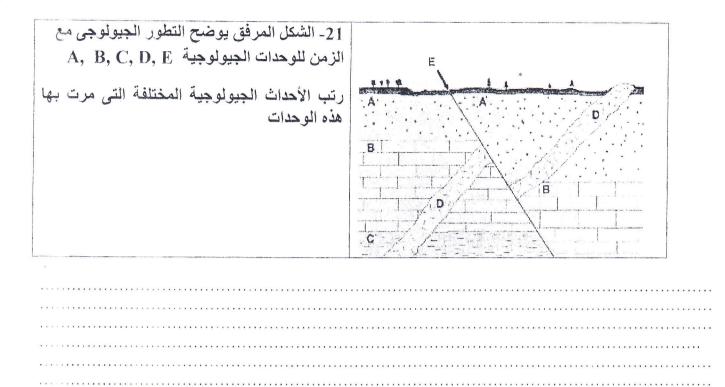
Part II: Answer the followings:

<u>(10 Marks)</u>

17- Just mention the causes of physical weat		(2 marks)
	•••••••••••••••••••••••••••••••••••••••	
	•••••••••••••••••••••••••••••••••••••••	••••
18- What are the parts of fold?	(2 marl	ks)
	•••••••••••••••••••••••••••••••••••••••	

	•••••••••••••••••••••••••••••••••••••••	
	•••••••••••••••••••••••••••••••••••••••	
19- What are the characteristics of an Index f	fossil? (2 mar	rks)
		••••
20- Compare between Porosity and Permeabi	ility (2 mar	·ks)

٣



انتهت الأسنلة GOOD LUCK التهت الأسنلة Prof.Dr. Mamdouh F. Soliman Prof. Dr. Mahmud A. Essa Dr. Abdelhameed Salman