

جامعة اسسيوط

كلية العلوم- قسم الجيولوجيا

First Level Examination in Fundamentals of Geology (C100) ne Hours PART 1 (Total Marks 25) Jan.

<u>Time</u> : One Hou	ers <u>PART</u> I	(Total Marks 25)	<u>Jan., 2018</u>			
Answer the fe	ollowing questions: (E	ach question One Mar	k)			
Choose the correct answer of the following:						
	crustal plates move					
a-A few meter		b-a few millim	b-a few millimeters per 1000 years			
c-a few centimeters per year d- a few millimeters a day						
	ickness of oceanic crust					
a-5 km	b-7 km	c-35 km	d-100 km			
	3-Wegener's evidence of continental drift:					
a- Matching of animal and plant fossils b-fit of continental coastlines						
	c- Identical rock types of same age d- All of the above.					
	plate boundary to have	•				
a-subduction	b- spreading center	c-transform fault	<u>c-all of the above</u>			
5-Volcanoes a	re least likely to be asso	ciated with:				
a-subduction zon	nes b- hot spots c- transfor	m faults d- mid-ocean rid				
	type of plate boundary	does subduction occu	ır?			
a- divergent	b- transform	C-	- convergent			
		phy and mineralo	$\mathbf{g}\mathbf{y}$			
	ne sign (✓) or (×	· ·	• .			
7- The Hexagonal system (a = b = c) ($\alpha = \beta = \gamma = 90^{\circ}$)						
8- Most crystals have a center of symmetry			()			
9- The Cubic System (a = b = c) ($\alpha = \beta = \gamma = 90^{\circ}$)			()			
	can be in a gas or liquid					
11- On Mohs hardness scale, quartz has 8			()			
	***	D / 1				
12 75		- <u>Petrology</u>				
	edimentary rocks are:					
a- clastic sedimentary rocks b- organic sedimentary rocks			entary rocks			
d- chemical sedimentary rocks e- all of the above						
13-Clastic sed	imentary rocks such as	conglomerates, sands	stones and shales are			
classified base						
a-color	b- density c- grain s	size d- a	ll of the above			
14-The mineral composition of peridotite is plagioclase and pyroxene?						
a-True b-False						
15-Mafic rocks contain about % silica.						
a- 20	b-50		I- 100			
4 20	0-30	Ç-00 (1- 100			
		•				

16-Slate rocks is a- regional metamorphism	b-thermal metam	norphism c-dynar	mic metamorphism
17-Agent of thermal metamo a-pressure b-tem	orphism is operature	c- both	
(Each question Two Mark) Compared between: 18- Granites and Basalts			
19- Schist and Marble			
20-Oceanic and continental	crust		•
21-Mention how can diffent using c-axes symmetry?		kagonal, trigonal	and tetragonal

2017		
دىسىمبر 2017	امتحان الفصل الدراسى الاول	قسم الجيولوجيا
مجموع الدرجات: 50	من المالمالمالم المالم المالمالمالم المالم المالمالم	
	لطلإب الفرقة الأولى علوم شعبة الكيمياء الصناعية	كلية العلــوم
الزمن: ساعتان	مقرر: أساسيات الجيولوجيا (G100)	جامعة أسيوط
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Answer the following questions: -

1- Define the following terms:

(10 marks)

Fracture - Cleavage - Axis of symmetry - Amorphous substances - Mantle convection

2- Write short notes on the following:

(20 marks)

- a- Wegener's evidence of continental drift.
- b- Convergent plate boundaries.
- c- Crystal system.
- d- Hardness.
- 3- Write True or False beside the following sentences:

(10 marks)

- a- Contact metamorphism results from the intrusion of hot magma into cooler rocks.
- b- Regional metamorphism affects broad regions of the earth's crust.
- c- Hornfels is a hard, dark, fine grained rock usually formed by contact metamorphism of sandstone.
- d- Quartzite is a rock composed of recrystallized quartz grains.
- e- Quartz is the most common mineral found in evaporate deposits.
- f- Dolomite forms when Mg-rich solutions percolate through older beds of limestone.
- g- Shale is formed by lithification of organic sediments.
- h- Chemical sedimentary rocks form by direct precipitation of minerals from solution.
- i- Peridotite is composed of quartz and feldspar.
- j- Diorite is the medium to coarse-grained plutonic equivalent of andesite.

4- Complete the following sentences:

(10 marks)

- a- is a volcanic rock, intermediate in composition between basalt and granite.
- b- contains the same minerals as granite but has a fine-grained texture.
- c-is a dark, very fine-grained volcanic rock.
- d- and are called mafic rocks because of their high magnesium and iron content.
- e- and contain large amounts of silicon and aluminum.
- f-is the manner in which a mineral reflect light.
- g- occurs where two plates move apart horizontally.
- h- occurs where plates slide horizontally past one another without the production or destruction of lithosphere.
- i- is lithified gravel.
- j- Beneath the lithosphere in the upper mantle lies a soft weak layer known as the