21. In a syncline, all rock layersa. have horizontal dips.b. have vertical dips.c. dip away from the fold axis.d. dip toward the fold axis.			
 22. Based on your experience, which of these environments will produce sediments with ripple marks? a. a stream b. a near shore marine environmental c. a desert d. ripple marks may develop in all these environments 			
23. The process whereby rocks are changeda. metamorphism.b. weathering.c. transport.d. abrasion.	to sediment is called		
24. Layers in which the grain size changes va. not observed in nature.b. graded bedding.c. cross-bedded.d. foliated.	ertically through the layer is		
25. Favorable conditions for fossilization are:a. soft body parts such as tissues.c. lack of oxygen.	b. rapid burial. d. none of the above (not a or b or c).		
GOOD LUCK			

5. Write on the different types of stream channels.		
II- <u>Select the best answer</u> (Each One Mar		
6. A surface that separates older metamorphic from a. Conformity b. angular unconformity c. Disconformity d. Nonconformity	younger sedimentary rocks is called	
 7. Desert pavement is a a. highway across the desert b. salty crust in the desert c. layer of coarse rocks and pebbles left behind d. An alluvial fan 	by deflation	
 Relative age dating is: a. the rock's age is determined relative to another b. the rock's age is determined by using radioacc c. both a and b. d. none of the above. 		
9. On the cartoon, block "A" is called a. footwall block b. hanging wall block c. normal block d. reverse block e. all of the above	9, 10 &11	
10. On the cartoon, block "B" is called a. footwall block b. hanging wall block c. normal block d. reverse block e. all of the above	AB	
11. What type of stress is represented in this fault-bl	ock model?	

b compressional

e. none of the above

c. laterald. lithostatic

III-Rocks

15-Extrusive rocks are formed from:

b-Lava cooling outside on the earth's surface. a-Magma cooling inside the earth

16-The mineral composition of gabbros is plagioclase and pyroxene?

a-True

b-False

17-The major difference between breccias and conglomerate is:

a- size of grain

b- composition of grain

c- rounding of the grain

18- A Sedimentary rock made of CaCO3 composition is:-

a-Coal

b-quartzite

c-limestone

19- Which is a foliated metamorphic rock?

a hornfels

b- marble

c- quartzite

d- slate

Chose the correct answers:

20-The most prominent geologic features at convergent boundaries are......

a-subduction zones

b-high mountains

c- trenches

d-new oceanic crust e- deep earthquakes f- volcanic arcs

21-The lithosphere is the.... in the Earth

a- uppermost mantle and crust b- heat content of magma intrusion

c- hot, plastic deformed shells d- convecting shell

e- hottest shell f- deepest shell

22- The tetragonal system crystals are characterized by.....

a- long c-axis b- equal a-axis and b-axis c- equal c-axis and b-axis

d-equal c-axis and a-axis e- equal three crystallography axes

f- unequal three crystallography axes

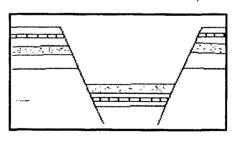
Write short notes on:

23- basalt

24-Marble

25- Compared between granite and gabbro

- 12. Is the groundwater/water table flat?
 - a- Yes, it is always at a constant level below the surface and flat like a table
 - b- No, it roughly follows the contours of the land surface
- 13. The lowering effect on the water table around the base of the well is called
 - a- Aquiclude
 - b- Artesian surface
 - c- Cone of depression
 - d- Speleothem
- 14. A landform that is created by the cutoff of a meander is a (an)......
 - a. oxbow lake
 - b. natural levee
 - c. back swamp
- 15. A fossil may be:
 - a. an impression.
 - b. a track of any animal or plant.
 - c. a cast.
 - d- All of the above (a, b and c).
- 16. What defines a stream as a young stream?
 - a. the size of the stream
 - b. the location of the stream
 - c. It flows quickly through a steep valley.
 - d. the period of time the stream has been there
- 17. Which of the following rocks has the highest permeability?
 - a. An unfractured shale
 - b. A cemented sandstone
 - c. An uncemented sandstone
 - d. All of these rocks have approximately the same permeability
- 18. This feature (seen in cross-section) is:
 - a. an anticline
 - b. a graben
 - c. a monocline
 - d. a syncline
- 19. Exfoliation is a natural process which results from
 - a. activities of man
 - b. chemical weathering of rocks
 - c. thermal expansion of rocks
 - d. organic activities
- 20. Folding occurs when rocks behave as
 - a. Ductile solids.
 - b. Frozen solids.
 - c. Fluids.
 - d. Brittle solids.



Assiut	Univer	sity

Faculty of Science-Geology Dept



جامعة أسيوط

كلية العلوم- قسم الجيولوجيا

First Level Examinat	tion in Fundamentals of G	eology (G100)	
Time: One Hours PA	RT I (Total Marks 25)	<u>Jan., 201</u>	
Answer the following questions	S: (Each One Mark)		
Choose the correct answer of t	he following:		
I-	Plate tectonics		
1-The earth's crustal plates mo	ove		
a-A few meters per year	b-a few millim	eters per 1000 years	
c-a few centimeters per year	d- a few millim	neters a day	
2-The composition of continen	tal crust:		
a-is granitic composition	b-is basaltic compo	sition	
3-Average thickness of oceanic	e crust is		
a-5 km b-7 km	c-35 km	d-100 km	
4-Average density of core is	2	2	
a- 11 g/cm ³ b- 10 g/cm	m^3 c- 9 g	/cm³	
5 Volcanic island arcs are ass			
a- transform boundaries b-di	•	-	
6- What type of plate boundary	y has the two plates moving	away from each	
other?	. ~		
a-Divergent plate boundaries			
c-Transform-fault plate boundari		ve	
7-Wegener's evidence of contin		. 1	
a- Matching of animal and plant			
c- Identical rock types of same a	-	ve.	
8- The type of plate boundary		a all aftha abaya	
a-subduction b- spreading cer	nter c-transform fault	c-all of the above	
II-Crystallography and mineralogy			
Indicate by the sign (\checkmark) or $(×)$:-			
9- The Hexagonal system (a = b = c) ($\alpha = \beta = \gamma = 90^{\circ}$)			
10- The Triclinic System (a \neq b		()	
11- The Cubic System ($\alpha \neq b \neq c$) ($\alpha \neq \beta \neq \gamma = 90^{\circ}$) ()			
11- The Cubic System ($a = b = c$) ($a = p = \gamma = 50$) 12- Minerals can be in a gas or liquid state ()			
13- Glass is minerals		()	
14- On Mohs hardness scale, ta	alc has 1	(
		` '	

First Level Examination in Fundamentals of Geology (G100) <u>Time</u>: One Hours <u>PART</u> II (*Total Marks 25*) Jan.-2017

Prof. Dr. Mostafa M. Youssef

Prof. Dr. Ahmed- Reda M. El Younsy

Dr. Mahmoud Essa

<u></u>	
I- Answer the following questions:	(Each One Mark)
1. Write on the difference between Joints at	nd Faults. Give examples.
2. What is the difference between weathering	ng and erosion?
2. What is the amerenes settlesh weathern	ig and crosion.
	••••••
	••••••
3. What is meant by the Index Fossils?	
4. What is the difference between porosity a	and permeability?
4. What is the amerence between porosity a	and permeability: