## **GEOLOGY**

1.	a. b. c.	w of superposition explains that  The lower stratum is older than the upper stratum.  The lower stratum is younger than the upper stratum.  If there is a disturbance, the lower stratum is older than the uppe  If there is no disturbance, the lower stratum is older than the uppe	
		The stratum is characterized by fossil content.	er stratum.
2. us	we c a. b. c. d.	e stand along a strike-slip fault, and if the left hand side block has recall this a Dextral strike-slip fault Sinistral strike-slip fault Normal fault Thrust fault Oblique fault.	moved towards
3.	a. b. c. d.	st mineral to form in the Bowen's Reaction Series is Olivine Quartz Orthoclase Biotite Pyroxene.	(1 point)
4.	<i>a.</i> b. c. d.	fossil is usually found in Permo-Carboniferous rocks?  Homo erectus  Mastodont  Eohippus  Nummulites  Fusulina	(2 points)
5.	a. b. c. d.	ohorovicic discontinuity is characterized by A change in seismic wave velocity High temperature Elevated gravity Rayleigh wave attenuation High pressure	(2 points)
6.	a. b. c. d. e.	is an ore mineral of aluminum.  Bauxite Garnierite Pyrite Chalcocite Chalcopyrite	(2 points)
7.		nen did Pangea the supercontinent break up into Gondwana (2	2 points)

- a. Silurian period
- b. Cambrian period
- c. Triassic period
- d. Oligocene epoch
- e. Eocene epoch
- 8. Which of the following is a character of river valley in its early stage? (2 points)
  - a. Alluvial fans
  - b. U-shaped cross section
  - c. V-shaped cross section
  - d. Flood plain
  - e. Meander

9.







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The figure above shows several invertebrate fossils. The names of (2 points) the fossils are:

> a. 1=Ammonite 2= Blastoidea 3=Trilobite b. 1= Blastoidea 2= Ammonite 3= Trilobite c. 1= Trilobite 2= Ammonite 3=Blastoidea d. 1=Trilobite 2= Blastoidea 3= Ammonite e. 1= Blastoidea 2= Trilobite 3= Ammonite

10. Which of the following is not the landslide? (2 points)

(2 points)

- a. Rockfall
- b. Debris fall
- c. Subsidence
- d. Sliding
- e. Mudflow
- In stratigraphy, the grouping of sedimentary rocks based on

their fossil content is called \_

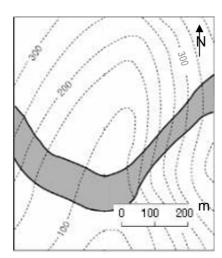
- a. Lithostratigraphy
- b. Chronostratigraphy
- c. Geochronology
- d. Biostratigraphy
- e. Sequence stratigraphy
- 12. The unconformity between the older igneous/metamorphic rocks and (1 point)

the younger sedimentary rock is called  a. Angular unconformity b. Nonconformity c. Paraconformity d. Hiatus e. Disconformity			
13 . The Himalayan mountain started rising since the (1 point)  a. Pleistocene b. Miocene c. Jurassic d. Eocene e. Pliocene			
<ul> <li>14. Conglomerate is a sedimentary rock that consists of (1 point) <ul> <li>a. Round grains of size more than 2 mm</li> <li>b. Round grains of size less than 2 mm</li> <li>c. Angular grains less than 2 mm</li> <li>d. Angular grains more than 2 mm</li> <li>e. Round or angular grains cemented by SiO2 or CaCO3.</li> </ul> </li> </ul>			
15. Based on the geologic cross-section given below, the chronology of the geologic events is:			
<ul> <li>a. Conglomerate - Shale – sandstone – limestone – unconformity – fault – granite</li> <li>b. Granite – fault – unconformity – limestone – sandstone – shale – conglomerate</li> <li>c. Shale – granite – sandstone – unconformity – fault – limestone – conglomerate</li> <li>d. Shale – sandstone – fault – limestone – unconformity – conglomerate – granite</li> <li>e. Shale – fault – sandstone – limestone – unconformity – conglomerate – granite</li> </ul>			
Limestone consists of calcium carbonate minerals. The most abundant calcium carbonate mineral is (2 points)  Two major minerals in granite are and (2 points)			

18. If we have a fault where the hanging wall has relatively moved down compared to the foot wall, (1 point)

we call this fault a \_\_\_\_\_

- a. Dextral strike-slip fault
- b. Sinistral strike-slip fault
- c. Normal fault
- d. Thrust fault
- e. Oblique fault
- 19. According to the V rule, the stratum (in darker grey color) in the figure below strikes in \_\_\_\_\_ direction and dips in the \_\_\_\_\_ direction. (2 points)



20. If you make a geologic section along the true dip in the figure given above, the cross section should run in \_\_\_\_\_ direction and the thickness of the stratum is \_\_\_\_ m. (2 points)