

Review Questions-GEOL 10113

Dr. Morgan

1. Pangaea broke up at the end of which era?
2. Marble and quartzite are in which rock category?
3. Which rocks indicate high grade (temp) or low grade (temp) metamorphism?
4. Jovian planets are mostly made of what?
5. Which is a ferromagnesian (dark) mineral?
6. For a normal fault, the hanging wall moves which way?
7. The vast majority of rock forming minerals are silicate or nonsilicates?
8. The person who first understood that unconformities meant large time gaps is?
9. Shear forces can produce what kind of faults?
10. The earth's inner core is made of what?
11. The slowest seismic waves are?
12. A potentially good oil source rock is?
13. Folded rocks are produced by what forces?
14. Small (fine) texture (crystals) in an igneous rock suggests?
15. Sandstone is composed of what mineral?
16. All silicate minerals contain which elements?
17. A type of chemical bond that shares electrons is called?
18. JD Rockefeller made his early fortune selling?
19. The earth is thought by geologists to be about how old?
20. How are Granite and Rhyolite...similar...or different?
21. A water table is associated with?
22. The Hawaiian islands are what kind of volcanoes?
23. The Atlantic is approximately how old?
24. Slate come from what original rock?
25. Diagenesis would most be associated with which rock group?
26. Metamorphism may result from temp and what?
27. The vertical drop (slope) of a stream channel over a distance is called?
28. Transgression has which rock type on top?
29. At a bend in a meandering stream, erosion occurs mostly where?
30. An anticline has rock beds that dip which way?
31. The Geologic Era we live in is known as the _____?
32. The Barnett Shale is porous or permeable?
33. What feature is created when two lateral moraines join?
34. According to "plate tectonics" the Pacific Ocean is getting larger or smaller?
35. Transform faults are associated with?
36. What is true about P waves?
37. Where is rock material being destroyed back into the mantle?
38. The earth's outer core is made of what?
39. Strike slip faults exhibit what kind of movement?
40. Oceanic crust is mostly made of?
41. A laser and mirror system on the moon is being used to measure what?
42. Ocean-Continent collision is occurring where?
43. Radioactive elements with extra neutrons are called?
44. Oxidation and leaching are examples of?
45. The Hawaiian Islands are moving towards?

46. What are the characteristics or properties of a mineral?
47. The last “global cooling” and glaciation occurred when?
48. Magnetic reversals were first observed where?
49. Ocean-Ocean plate collision is occurring where?
50. The oceanic ridge system is the major site of what?
51. Coal begins to be formed in which environment?
52. What did the “Allies” get at the end of WWII at Yalta?
53. Travertine and geysers are associated with?
54. Madame Curie contributed greatly to the understanding of?
55. If a rock layer dips 15 degrees to the east....it's strike is?
56. The most probable cause or explanation of plate tectonic motion is?
57. Earthquakes are responsible for:
58. An example of a clastic sedimentary rock is:
59. The most abundant minerals that make up the earth's mantle are?
60. Gabbro is what kind of rock?
61. Which feature is most associated with a confined aquifer?:
62. Which is associated with physical weathering of rocks:
63. The moon is thought to have been created by what process?
64. The Seven Sisters are what kind of companies?
65. Los Angeles is moving in what direction?
66. Pangaea began to break up approximately how many years ago:
67. P waves from earthquakes:
68. The subsurface location of an earthquake is known as the:
69. Active centers of earthquake activity are located at:
70. Old Faithful is associated with what kind of events?
71. The densest (heaviest) part of the earth's interior is probably the?
72. What was used as evidence for Continental Drift by Wegener?
73. The Hawaiian Islands form at a _____ .
74. Which mountain range is thought to be due to continent-continent collision:
75. Which continent listed below is currently breaking up like Pangaea:
76. Which ocean is the youngest (most recently formed):
77. Which body of water listed below is expanding in size:
78. Tums and Roloids are manufactured from which mineral or rock?
79. The radius of the Earth (distance to the center) is approximately how many miles?
80. If erosion levels off (erodes) a dome (anticline), one would find what age rocks?
81. If the hanging wall moves up relative to the footwall, the fault is a:
82. If a rock unit dips 5 degrees to the north, its strike is:
83. The San Andreas is what type of fault:
84. Abundant fossil evidence began to appear about how long ago?
85. Dinosaurs roamed the earth during what geologic time era?
86. Which technique was first used to detect the mid ocean ridge system:
87. What two factors help insure a good groundwater aquifer:
88. Bowen contributed greatly to understanding of what?
89. Half life is associated with which minerals?
90. How many seismic stations are required to locate an epicenter:
91. Which type of stream is not in equilibrium with sediment and water flow:
92. Which seismic waves do not travel through liquids:

93. Slate indicates a high or lower metamorphism than schist?
94. The longest continuous mountain system found on the Earth is where?
95. Texaco and Gulf oil companies formed from wells drilled near what city in Texas?
96. What "cartel" was formed mostly of Middle East Countries
97. Which country slammed into Asia to form the Himalayans:
98. The west side of the Pacific Ocean is dominated by:
99. Eventually Hawaii will end up where?
100. Iceball or Snowball Earth occurred during what geologic time period:
102. At a bend in a meandering stream, erosion occurs mostly:
103. What feature is created when two lateral moraines join:
104. A potentially good groundwater reservoir rock (aquifer) is:
105. A water table is most associated with:
106. Aretes, horns and moraines are associated with?
- 107.** The earth's mantle is mostly made of what kind of minerals?
108. A gentle shallow coastline with barrier bars is on on which U.S. coast:
109. The vertical drop (slope) of a stream channel over a distance is called:
110. The energy for the hydrologic cycle comes from:
111. What forces produce reverse faults?
112. To be good as a source for groundwater, a rock must possess both _____ and _____
113. What forces produce normal faults?
114. Unconformities in the rock record represent what?
115. The person most responsible for determining the properties of radiation/half life?
116. The Alps with a lot of folded rocks are probably dominated by which type of faults:
117. Which kind of faults probably dominate the area around Las Vegas in the Rockies?
118. How do geologist measure the orientation of rock layers?
119. What forces produce strike-slip faults?
120. Most of our fresh water is found where?
121. When galciers form and grow, the global ocean level goes?
122. What kind of fault is produced when the hanging wall moves up the fault plane?
123. Dinosaurs really flourished on the earth during which time era?
124. Which type of stream is in equilibrium with sediment erosion and water flow?
125. Large oil deposits are often found in anticlines or synclines?
126. The San Andreas fault what kind of fault?
127. For anticlines, the rock layers dip?
128. Also, for anticlines, what age rocks are in the middle?:
129. For synclines, the rock layers dip in what direction?
130. Which term is not associated with folds:
131. How many Pleistocene glacial advances can we document:
132. Synclines always have rocks that dip which way?
133. Which radiation is used to detect the radioactive decay from uranium:?
134. Abundant fossil evidence starts to appear in the rock record about?
135. Many species died at the end of the Paleozoic Era due to?
136. What would the strike be for rocks dipping 20 degrees to the north?
137. Half life is a measure of the decay of uranium to produce which element?
138. Where is the largest mass of ice on earth currently located?
139. Isotopes have varying numbers of?
140. Which is the oldest geologic era?

141. A water table is associated with confined or unconfined aquifers?
142. The Geological Era meaning “recent life” is?
143. Anticlines and synclines are produced by what kind of forces?
144. Which is not associated with glaciation?
145. Rock layer continuity, similar lithologies, cross cutting and fossils are used for?
146. On the San Andreas Fault, Los Angeles is moving to the?
147. In the oil business, the 7 Sisters are?
148. The Great Lakes were formed from?
149. Which state is a giant geologic basin (syncline):
150. Which of these is associated with Dip-Slip faults:
151. Texture size and minerals is associated with naming which rocks?
152. Meteorites are thought to have their origin from where?
153. The moon’s interior is solid or liquid?
154. As magma undergoes quick cooling, the size of the crystals that form is:
155. The position of an element on the periodic table is determined by the
156. About how many minerals are found on the Earth?
157. A sedimentary sequence of sandstone over shale over limestone indicates:
158. Which is the most likely origin for coal?
159. A rock showing slow cooling exhibits what kind of texture?
160. Changes due to temp, pressure and fluids are associated with which rock group?
161. What evidence might geologists use to know an ocean was present in Ft. Worth?
162. Which sedimentary rock contain mostly calcite?
163. The highest form of hardened coal is?
164. Howard Hughes Sr. invented what?
165. The Barnett Shale produces gas because it is rich in what?
166. The chart of mineral crystallization sequence from a magma was constructed by
167. Which kind of soils are most likely found in Utah?
168. What is a metamorphic index mineral?
169. Igneous rocks are classified (named) primarily on the basis of:
170. The early geologist who said, “present is the key to the past” was?

The final will consist of 100 questions from this list. You are given these questions to answer for yourselves. I won’t answer emails about them as I expect you to find the answers from your notes, the slides, the book or google them. You have been exposed to all of these in lecture..Good luck....

Final: If you would like for the Final to count as your only grade for the course (lab will not count and neither will any other exams), follow these instructions:

At the end of your name on the Bubble Sheet, bubble in 3 X’s

Example: Presley ElvisXXX...

It must have 3 X’s and bubbled in or it will not count as your only grade...no exceptions...and your decision is not reversible...so decide carefully.

