Possible Test Questions
UNIT 3  Minerals and Rocks FOR EXAM #2

Atoms and Elements from Stars
1. Which two elements form the largest amount of mass in our known universe?
2. Our sun is composed mostly of one element - which one?

Atoms after Supernovas
3. How are most of the 92 natural elements in our universe created?
4. Should we expect to find many new elements in other solar systems and galaxies?

Most Abundant Elements in Earth’s Crust
5. What are the two most abundant elements in the Earth’s crust?
6. How different would minerals be on other planets, when compared to those on Earth?

All Minerals Must Possess Certain Characteristics.
7. Can man-made compounds be considered minerals? Why?
8. Why are oil, gas and coal deposits defined by governments as minerals?

Diamonds and Graphite
10. Which single element composes both graphite and diamond?
11. What structural difference makes a diamond different from graphite? *Good exam question*
12. Which mineral is harder than diamonds?
13. What type of paper weighs one carat?

Physical Properties of Minerals
14. How is the cleavage of various minerals defined?
15. How is hardness defined?
16. How can using color be a problem in identifying a mineral?

Common Texas Minerals
17. What is the chemical composition or formula for halite? *Common exam question*
18. What is the crystal structure and cleavage pattern for halite?
19. What is the hardness and cleavage of the mineral gypsum?
20. Name two common uses for gypsum.

21. Where can sulfur be found along the GOM coast?

22. What is the chemical composition of calcite?
23. Which iron ore mineral is a natural magnet?

Silicate Minerals
24. Describe the hardness of quartz?
25. What common commodity is made from melted quartz sand?
26. Described how quartz is used with the building construction industry.
27. Which mineral is the possibly one of the most common mineral in the known universe?
Rocks
28. What is the definition of a rock?

Rock Systems
29. Rocks are formed in three rock systems. Name the three rock systems.

Igneous Rock System Definitions
30. What type of rock does a clastic sedimentary rock become when it is melted? (almost always on exams)

Some Locally Found Igneous Rocks
31. Locally, how is scoria commonly used?
32. Describe one a unique physical property of pumice

33. Which minerals generally comprise granite?
34. What is the name of the large natural occurrence of granite (State Park) in Texas?

Two General Classifications of “Sediments” (needed to make sedimentary rocks):
35. What is a clastic sediment?

The Different Classifications of Sediments Produce Different Types of Sedimentary Rocks
36. In regards to lithification, how is cementation accomplished?
37. Describe the origin of coal.
38. Name a South Texas “shale” that led to a major oil and gas boom.

Metamorphic System Rocks (Ch. 8)
39. Name a typical foliated metamorphic rock.
40. From which sedimentary rock is marble produced?
41. Which mineral comprises the metamorphic rock marble?
42. What type of rocks do sedimentary and igneous rocks become with heat and pressure (burial)?

SEE NEXT PAGE FOR DAILY QUIZZES
Open Notes and Open Book Daily Quiz 4 (Unit 3 Rocks & Minerals)
Using the word bank below: please clearly write the correct answer number

All answers found using the text book

A. Page 79; Mineral Commodities Chart
   The US must import 100% of several mineral commodities? Which 100% commodities would this include? [ ]

B. Page 160 How Does Sediment Become Sedimentary Rocks?
   Lithification requires either compaction or [ ]

C. Page 164; Chemical and Biochemical Sedimentary Rocks?
   Some names for different varieties of chert include [ ]

D. Page 165 Chemical and Biochemical Sedimentary Rocks?
   Peat (moss) can be converted, by the next lithification step to [ ]

E. Page 183 Geo-Focus
   A fibrous mineral produced by metamorphism is [ ]

Daily Quiz 5 (Unit 3 Rocks and Minerals)

Assignment can be found on Page 11 of Rocks & Minerals Study Guide and Unit 3 web Hit Site

I have read the end of the Unit 3 Study Guide and I understand that there is a written assignment about Metals and Minerals due the Wednesday class after Exam 2, and I plan on turning in this “team” assignment on time with copies for my team members.

Circle your answer: YES TO ALL (Worth 5 points)   NO TO ALL (Worth zero points)

Check the box below if it applies to you
[ ] I came to class tardy or I am planning on leaving the class early (minus one point)