

ROCKS (and one mineral) QUIZ

Name \_\_\_\_\_

Identify, write "S" if sedimentary, "I" if igneous, and "M" if metamorphic (If it's the mineral, write "min"), then answer the associated question(s):

1. \_\_\_\_\_

a. Is this rock foliated? \_\_\_\_\_

2. \_\_\_\_\_

a. Does this rock show a low or high grade of metamorphism? \_\_\_\_\_

3. \_\_\_\_\_

a. Is this rock clastic or a chemical precipitate? \_\_\_\_\_

4. \_\_\_\_\_

a. With increased heat and pressure, what would this become? \_\_\_\_\_

5. \_\_\_\_\_

Where did the material that forms this rock accumulate? \_\_\_\_\_

6. \_\_\_\_\_

a. Is this rock phaneritic or aphanitic? \_\_\_\_\_

7. \_\_\_\_\_

a. Extrusive or intrusive? \_\_\_\_\_

8. \_\_\_\_\_

a. What causes the foliation in this type of rock? \_\_\_\_\_

9. \_\_\_\_\_

a. Which rock would this be if the clasts were angular? \_\_\_\_\_

10. \_\_\_\_\_

a. What is the chemical composition of this rock? \_\_\_\_\_

11. \_\_\_\_\_

a. What is the probable parent rock? \_\_\_\_\_

12. \_\_\_\_\_

a. Does this crystallize at relatively higher or lower temperatures? \_\_\_\_\_

13. \_\_\_\_\_

a. Name one identifying characteristic of this rock. \_\_\_\_\_

14. \_\_\_\_\_

a. Does this rock contain quartz? \_\_\_\_\_

15. \_\_\_\_\_

a. Are the sediments that formed this rock well-sorted or poorly-sorted? \_\_\_\_\_

## ROCK (and one mineral) QUIZ ANSWER KEY

1. Quartzite	M	No
2. Gneiss	M	High
3. Shale	S	Clastic
4. Bituminous coal	S	Anthracite
5. Fossiliferous limestone	S	Shallow sea
6. Granite	I	Plutonic
7. Basalt	I	Extrusive
8. Schist	M	Alignment of minerals
9. Conglomerate	S	Breccia
10. Travertine	S	CaCO <sub>3</sub>
11. Slate	M	Shale
12. Quartz	Min	Lower
13. Marble	M	Nonfoliated, soft, or fizzes with HCl
14. Gabbro	I	No
15. Sandstone	S	Well-sorted