Rock Cycle

Use the Rock Cycle diagram on page 6 of your ESRT to answer the questions below.

1. As magma cools, it forms ____________ rock by the process of _________________.

2. Igneous rocks can form _______________, _______________ and _______________ rocks.

3. Sediments form _______________ rock by the process of _________________.

4. Sediments form from the process of _________________.

5. Sedimentary rocks can form _______________ , _______________ and _______________ rocks.

6. Which process changes igneous rock into metamorphic rock? ________________________

7. Which process changes sedimentary rock into igneous rock? ________________________

8. Which process changes metamorphic rock into sedimentary rock? ________________________

9. Metamorphism involves the addition of _____________ and _____________ to pre-existing rocks.

10. Compaction & cementation of sediments forms ________________ rocks.

11. Recrystallization of ___________ material forms _______________ rocks.

12. Solidification of molten materials forms ________________ rocks.


14. Deposited sediments may be particles of which types of rock?

15. Heat & Pressure acting on igneous rocks forms ________________ rock.
16. In order to form magma, what must happen to sedimentary, metamorphic or igneous rocks? 
__________________________________________________________________________

17. On what part of earth does most weathering & erosion occur? ____________________.

18. What process must occur for most rocks to be exposed to weathering and erosion?  
__________________________________________________________________________

19. How can a sedimentary rock form directly from a metamorphic rock? Explain your answer. 
__________________________________________________________________________

20. Describe ALL the events that must occur for sandstone to form from granite. __________

___________________________________________________________________________

How would this sandstone become a quartzite? 
__________________________________________________________________________

21. Describe ALL the events/processes that must occur for shale to form, and then change to schist.

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