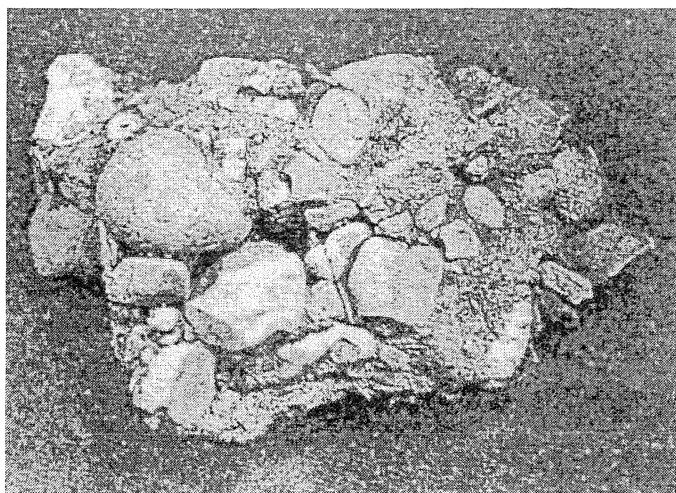


Sedimentary Review

Name: _____

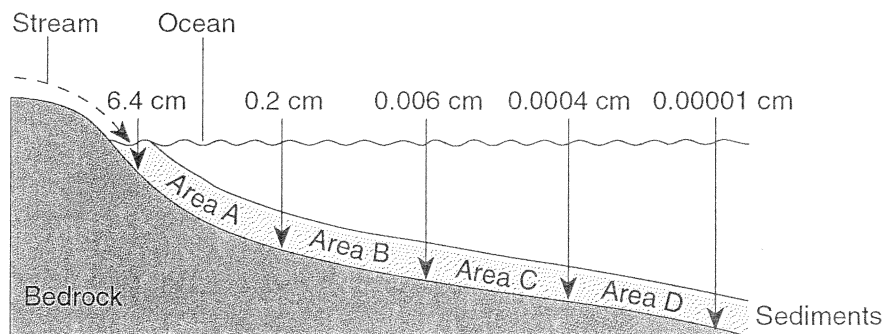
Date: _____ Period: _____

1. A student classified the rock below as sedimentary.



Which observation about the rock best supports this classification?

- | | |
|--|--|
| 1) The rock is composed of several minerals. | 3) The rock contains fragments of other rocks. |
| 2) The rock has a vesicular texture. | 4) The rock shows distorted and stretched pebbles. |
2. The profile below shows the average diameter of sediment that was sorted and deposited in specific areas A, B, C, and D by a stream entering an ocean.



As compaction and cementation of these sediments eventually occur, which area will become siltstone?

- 1) A 2) B 3) C 4) D

3. Most rocks that form from fragmental rock particles are classified as
- | | |
|----------------------|-------------------------|
| 1) extrusive igneous | 3) clastic sedimentary |
| 2) intrusive igneous | 4) chemical sedimentary |

4. Which mineral precipitates from oceans and forms rock salt?
- | | |
|-------------|------------|
| 1) quartz | 3) halite |
| 2) fluorite | 4) olivine |

5. Soil that contains large quantities of calcium was most likely formed by the weathering of
- | | |
|--------------|--------------|
| 1) rock salt | 3) coal |
| 2) quartzite | 4) limestone |

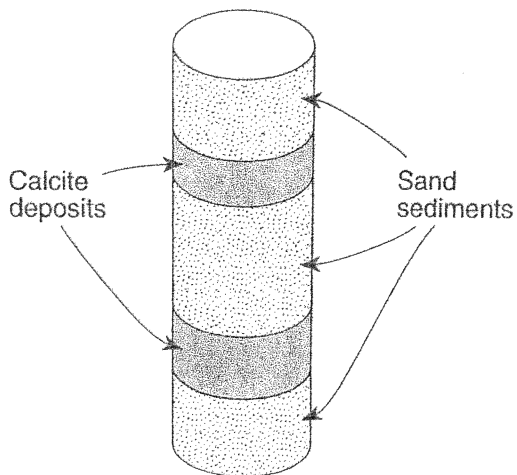
6. Most sandstone bedrock is composed of sediment that was
- 1) sorted by size and not layered
 - 2) sorted by size and layered
 - 3) unsorted and not layered
 - 4) unsorted and layered

7. Which process led to the formation of thick salt deposits found in the bedrock at some locations in New York State?
- | | |
|------------|-----------------|
| 1) melting | 3) condensation |
| 2) runoff | 4) evaporation |

8. Which type of rock most likely contains fossils?
- | | |
|-----------|-----------|
| 1) scoria | 3) schist |
| 2) gabbro | 4) shale |





Sedimentary Review

9. A student obtains a cup of quartz sand from a beach. A saltwater solution is poured into the sand and allowed to evaporate. The mineral residue from the saltwater solution cements the sand grains together, forming a material that is most similar in origin to
- 1) an extrusive igneous rock
 - 2) an intrusive igneous rock
 - 3) a clastic sedimentary rock
 - 4) a foliated metamorphic rock
10. The diagram below shows a drill core of sediment that was taken from the bottom of a lake.



Which types of rock would most likely form from compaction and cementation of these sediments?

- 1) sandstone and limestone
 - 2) shale and coal
 - 3) breccia and rock salt
 - 4) conglomerate and siltstone
11. A rock is composed of several large, rounded pebbles and sand grains cemented together. Which inference about the rock is best supported by this description?
- 1) The rock is older than the pebbles.
 - 2) The rock is igneous.
 - 3) The rock is sedimentary.
 - 4) The rock resulted from evaporation of sea water.
12. Which rock is made up of angular fragments of rock held together by a natural cement?
- 1) breccia
 - 2) scoria
 - 3) granite
 - 4) quartzite
13. Particles of sediment collected from a lake bottom averaged 1.2 centimeters in diameter. If left on the lake bottom to become buried by more sediment and compressed into rock, these particles would form
- 1) sandstone
 - 2) conglomerate
 - 3) quartzite
 - 4) granite

14. A stream slows to a velocity of 300 centimeters per second. Which type of sedimentary rock would most likely form from the deposition occurring at this location?
- 1) shale
 - 2) siltstone
 - 3) sandstone
 - 4) conglomerate
15. Which sedimentary rock would be formed by the compaction and cementation of particles 1.5 centimeters in diameter?
- 1) shale
 - 2) sandstone
 - 3) conglomerate
 - 4) siltstone
16. Which statement about the formation of a rock is best supported by geologic evidence?
- 1) Magma must be weathered before it can change to metamorphic rock.
 - 2) Sediment must be compacted and cemented before it can change to sedimentary rock.
 - 3) Sedimentary rock must melt before it can change to metamorphic rock.
 - 4) Metamorphic rock must melt before it can change to sedimentary rock.
17. Which symbol represents the sedimentary rock with the smallest grain size?
- 1) 
 - 2) 
 - 3) 
 - 4) 
18. Which feature is characteristic of sedimentary rocks?
- 1) layering
 - 2) foliation
 - 3) distorted structure
 - 4) glassy texture
19. Which type of rock is likely to show ripple marks and fossils?
- 1) intrusive igneous
 - 2) extrusive igneous
 - 3) metamorphic
 - 4) sedimentary
20. Which rock was organically formed and sometimes contains fossilized plant impressions?
- 1) rock gypsum
 - 2) phyllite
 - 3) breccia
 - 4) coal
21. Which phrase best describes coal?
- 1) low density, mafic
 - 2) chemical precipitate
 - 3) organic plant remains
 - 4) glassy texture, volcanic
22. Fossils would most likely be found in a sample of
- 1) limestone
 - 2) granite
 - 3) quartzite
 - 4) metaconglomerate