1. A student classified the rock below as sedimentary.

![Image of a rock]

Which observation about the rock best supports this classification?

(A) The rock has a vesicular texture.
(B) The rock contains fragments of other rocks.
(C) The rock is composed of several minerals.
(D) The rock shows distorted and stretched pebbles.

2. Most rocks that form from fragmental rock particles are classified as

(A) intrusive igneous
(B) chemical sedimentary
(C) extrusive igneous
(D) clastic sedimentary

3. 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

(A) an extrusive igneous rock
(B) a foliated metamorphic rock
(C) a clastic sedimentary rock
(D) an intrusive igneous rock

4. Which type of rock most likely contains fossils?

(A) scoria  (B) schist
(C) shale  (D) gabbro

5. 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

(A) sandstone  (B) quartzite
(C) conglomerate  (D) granite

6. Which sedimentary rocks are clastic and consist of particles that have diameters smaller than 0.006 centimeter?

(A) conglomerate and sandstone
(B) siltstone and shale
(C) bituminous coal and breccia
(D) fossil limestone and chemical limestone
7. 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?

(A) The rock is sedimentary.
(B) The rock is older than the pebbles.
(C) The rock resulted from evaporation of sea water.
(D) The rock is igneous.

8. Which sedimentary rock is formed by compaction and cementation of land-derived sediments?

(A) siltstone  (B) rock gypsum
(C) rock salt  (D) dolostone

9. Which land-derived sedimentary rock could have formed by the compaction and cementation of particles smaller than 0.0003 centimeter in diameter?

(A) sandstone  (B) limestone
(C) siltstone  (D) shale

10. Which feature is characteristic of sedimentary rocks?

(A) distorted structure
(B) glassy texture
(C) layering
(D) foliation

11. Dolostone is classified as which type of rock?

(A) chemically formed sedimentary rock
(B) foliated metamorphic rock
(C) nonfoliated metamorphic rock
(D) land-derived sedimentary rock

12. Which rock is formed by precipitation from evaporating water?

(A) sandstone  (B) granite
(C) shale  (D) salt

13. Which process most likely formed a layer of the sedimentary rock, gypsum?

(A) folding of clay-sized particles
(B) melting of sand-sized particles
(C) precipitation from seawater
(D) solidification of magma

14. Which type of rock is represented by the map symbol below?

(A) contact metamorphic rock that results from the alteration of limestone by contact with an igneous intrusion
(B) chemically formed sedimentary rock that consists mainly of the mineral calcite
(C) regional metamorphic rock with block like foliation
(D) clastic sedimentary rock formed from organic substances

15. The chemical precipitation of dissolved minerals from ocean water results in the formation of

(A) metamorphic rock
(B) coarse-grained igneous rock
(C) fine-grained igneous rock
(D) sedimentary rock

16. Limestone can form as a result of

(A) metamorphosis of conglomerate rock
(B) cooling of molten rock under the oceans
(C) precipitation from evaporating water
(D) radioactive decay of dolostone
17. The diagram below shows three stages in the formation of a specific rock.

![Diagram of rock formation stages]

Which rock is formed as a result of these three stages?
(A) limestone  (B) gneiss  (C) schist  (D) coal

18. Limestone, gypsum, and salt are rocks formed by the processes of
(A) evaporation and precipitation  
(B) erosion and deposition  
(C) weathering and metamorphism  
(D) melting and solidification

19. Which phrase best describes coal?
(A) low density, mafic  
(B) organic plant remains  
(C) chemical precipitate  
(D) glassy texture, volcanic

20. The diagram below represents the fossils found in a bedrock formation located in central Rhode Island.

![Diagram of fossils]

In which type of rock were the fossils most likely found?
(A) sedimentary rock that formed in an ocean environment  
(B) igneous rock that formed in an ocean environment  
(C) sedimentary rock that formed in a land environment  
(D) igneous rock that formed in a land environment