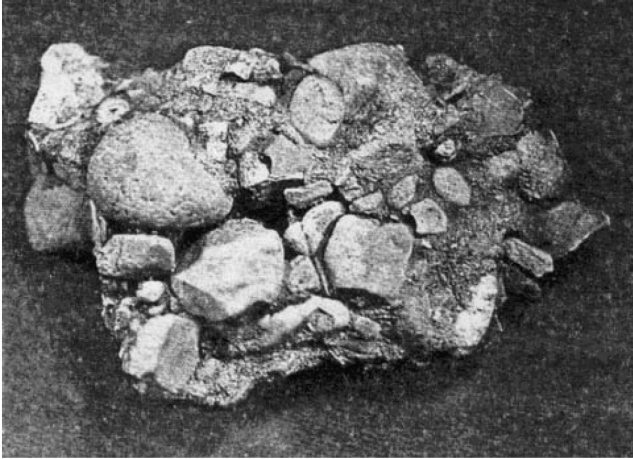


ESS Sedimentary Rocks

- ___ 1. A student classified the rock below as sedimentary.



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

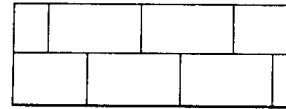
10. Which feature is characteristic of sedimentary rocks?
- (A) distorted structure
 - (B) glassy texture
 - (C) layering
 - (D) foliation

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

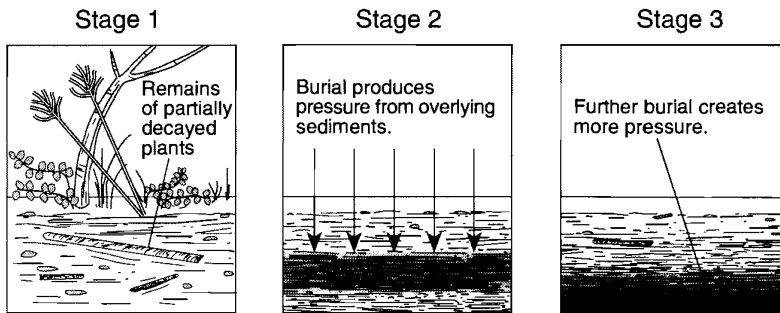
13. Which process most likely formed a layer of the sedimentary rock, gypsum?
- (A) folding of clay-sized particles
 - (B) melting of sand-sized particles
 - (C) precipitation from seawater
 - (D) solidification of magma

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.



Which rock is formed as a result of these three stages?

- (A) limestone (B) gneiss (C) schist (D) coal

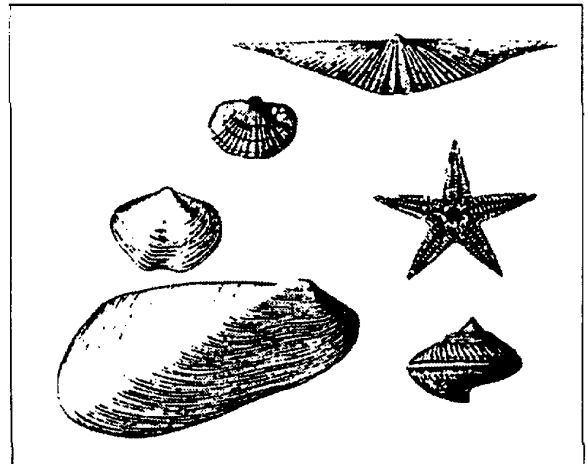
18. Limestone, gypsum, and salt are rocks formed by the processes of

- (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.



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