EROSION AND DEPOSITION REVIEW

- 1. The map below shows the large delta that formed as the Mississippi River emptied into the Gulf of Mexico. Which process was primarily responsible for the formation of the delta?
 - (1) glacial erosion
 - (2) cementation of sediment
 - (3) deposition of sediment
 - (4) mass movement



2. The diagrams below represent four different examples of one process that transports sediments.



- (3) unsorted and layered
- (4) unsorted and not layered
- 4. Which of the particles below was eroded by a stream for the longest period of time?



5. The topographic map below shows two drumlins located in upstate New York.

Which agent of erosion is most responsible for the shape of these drumlins?

- (1) wind (2) growith
- (2) gravity(3) waves
- (4) glaciers



- 6. Which of the following statements is true of the methods a stream can carry sediments?
 - (1) pebbles are in traction, clay is in suspension, and salt is in solution
 - (2) pebbles are in solution, salt is in suspension, and clay is in solution
 - (3) pebbles are in traction, clay is in solution, and salt is in suspension
 - (4) pebbles are in solution, clay is in suspension, and salt is in traction
- 7. Which of the pictures below show sediments that were transported and deposited by a glacier?



- 8. Which of the following particles will take least time to settle to the bottom of a lake
 - (1) a small, flat, dense particle
- (3) a small, round, dense particle
- (2) a large, flat, dense particle

(4) a large, round, dense particle

Base your answers to **questions 9 and 10** on the diagram and data table below. The diagram shows the equipment used to determine the factors affecting the rate of erosion in a stream. The data table shows the time it took a 10-gram sample of quartz sand to move 100 centimeters down the rain gutter under various conditions.



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Rain Gutter Slope	Water Velocity	Erosion Time (s)		
		Fine Sand	Coarse Sand	
5° -	slow	20	60	
	fast	15	40	
10°	slow	15	40	
	fast	10	30	
20°	slow	10	30	
	fast	5	15	

- 9. In this experiment, the water velocity could be increased by
 - (1) decreasing the slope of the rain gutter

(2) increasing the amount of water from the faucet

(3) lowering the flexible hose

(4) widening the rain gutter

- 10. What is the relationship between the water velocity and the rate of erosion?
 - (1) If the water velocity decreases, the rate of erosion increases.
 - (2) If the water velocity increases, the rate of erosion increases.
 - (3) If the water velocity remains constant, the rate of erosion decreases.
 - (4) If the water velocity remains constant, the rate of erosion increases.

11. On the diagram of the area of sand dune development provided, draw a sketch showing the general side view of a sand dune formed by a wind blowing in the direction indicated. Your sketch should clearly show any variations in the slope of the sides of the dune.



- 12. Which area would least likely experience wind erosion?
 - 1 beach

3 desert

2 forest

- 4 an arid region
- 13. Which landscape features are primarily the result of wind erosion?
 - 1 U-shaped valleys containing unsorted layers of sediment
 - 2 V-shaped valleys containing well-sorted layers of sediment
 - 3 terraces of gravel containing unsorted layers of sediment
 - 4 mushroom rocks
- 14. The largest sediment particles that can be transported by a stream traveling at a velocity of 1 centimeter per second are
 - (1) clay
 - (2) cobbles

(3) silt(4) sand

15. Which landscape surface resulted primarily from erosion by glaciers?

