

III. Erosion

1. Define the term erosion.

Erosion - removal + transportation of weathered + non-weathered materials

2. The most effective form of erosion is caused by water.

Circle One : True False

3. How does running water and ocean waves cause erosion?

Running Water : Water scrapes riverbanks + bottoms → Collects sediments

Springueville Bridge

Ocean Waves : Waves, tides + currents crash into the shoreline

14,000 waves per day

4. The greater the velocity of water, the ^{more} less erosion occurs.

Circle One : True False

5. Define the term deposition.

Deposition - sediment moved by erosion is dropped and comes to a rest (Deltas, Alluvial Fans)

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Groundwater
Caves - stalactites
- stalagmites
- columns
Sinkholes

6. How do glaciers cause erosion?

Large mass of ice carves the surface it "rests" on

7. What type of valley forms that indicates glacial erosion has occurred?

U-shaped p. 760

Glacial Plucking,
Glacial Grooving

8. How does wind cause erosion?

Fine particles are blown through the air.

9. Define the term abrasion (with regards to wind erosion).

Abrasion - natural form of sandblasting (Sphinx, pyramids)

Deflation
- wind blown sediments
- lowers surface
Sand Storms
Dust Storms
- Dust Bowl (1935)

10. Match the correct type of mass movement with the correct definition.

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|-------------------------|---|
| 1. <u>B.</u> Creep | A. Loose rocks or soil suddenly falling down a slope. |
| 2. <u>A.</u> Landslides | B. Slow movement of sediments down a hill. |
| 3. <u>D.</u> Mudflows | C. Loose materials slip down a slope; leaves a curved scar. |
| 4. <u>C.</u> Slump | D. Thick mixture of sediments and water flow down a hill. |

Utility Poles, Fences

Belleveue

Riverbanks

11. Define the term deforestation.

Deforestation - clearing of trees from an area without replacing them (Increases erosion → no anchors)
↳ (Plant roots, Windbreaks, Terracing, Drainage Tile, Jetties)

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