

Warm-up questions - Landslides

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Questions: 12

Finish**Save All****Help****1. L1a** (Points: 0.25)

Based on the case history of the Portuguese Bend landslide near Los Angeles, California, indicate whether the following statement is true (T) or false (F):

Only fast moving landslides pose a hazard to infrastructure and communities.

True False

Save Answer

2. L1b (Points: 0.25)

Based on the case history of the Portuguese Bend landslide near Los Angeles, California, indicate whether the following statement is true (T) or false (F):

There were no indications of a potential landslide problem at Portuguese Bend before construction began.

True False

Save Answer

3. L1c (Points: 0.25)

Based on the case history of the Portuguese Bend landslide near Los Angeles, California, indicate whether the following statement is true (T) or false (F):

Removal of water from a landslide through drainage helps to stabilize slopes.

True False

Save Answer

4. L1d (Points: 0.25)

Based on the case history of the Portuguese Bend landslide near Los Angeles, California, indicate whether the following statement is true (T) or false (F):

Ancient landslides that have since become stable may reactivate due to urban development and human activity.

True False

Save Answer

5. L2 (Points: 1)

Rockfalls refer to:

- a. large blocks of bedrock sliding on an inclined surface
- b. a flow of weathered rock
- c. individual rocks that free fall from the face of a cliff
- d. a cement like mixture of rock, soil and water that travels rapidly down a stream channel
- e. fragmented rock that flows at very high velocities for long distances

Save Answer

6. L3 (Points: 1)

If the driving forces acting on a landslide are two times greater than the resisting forces opposing such movement, its factor of safety is (write your answer numerically):

Save Answer

7. L4 (Points: 1)

Which of the following factors does not play a role in landslide activity:

- a. wind
- b. water
- c. tree roots
- d. geology
- e. weathering

Save Answer

8. L5 (Points: 1)

Quick clay problems are common in what part of Canada?

- a)
 - b)
 - c)
 - d)
 - e)
-
- 1. British Columbia
 - 2. Alberta
 - 3. Manitoba
 - 4. Quebec
 - 5. all of the above

Save Answer

9. L6 (Points: 1)

According to the textbook, on average how many people in North America are killed by landslides each year?

Save Answer

10. L7 (Points: 1)

Which of the following factors is expected to lead to increased landslide activity and fatalities with time:

- a. deforestation in landslide-prone areas
- b. changing global climate patterns
- c. increasing population density in mountainous areas
- d. expanding development onto undeveloped slopes
- e. all of the above

Save Answer

11. L8 (Points: 1)

An unstable slope may be stabilized by _____.

- a. removing material from the toe of the slope
- b. steepening the slope

- c. applying a load to the top of the slope
- d. draining the slope
- e. all of the above

Save Answer

12. L9 (Points: 1)

Put these types of landslides in order of increasing velocity of their movement:

- Select choice - , - Select choice - , - Select choice - , - Select choice -

Save Answer

Finish

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