

**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

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**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

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**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

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**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

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**9. L6** (Points: 1)

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

Save Answer

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**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

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**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

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**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

Save All

Help