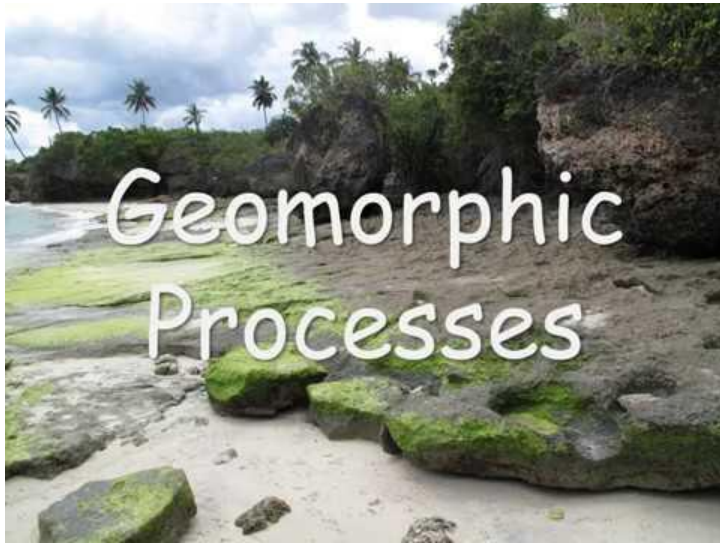


TOP 30 GEOMORPHIC PROCESSES MCQS



RUBY MA'AM

Geomorphic Processes



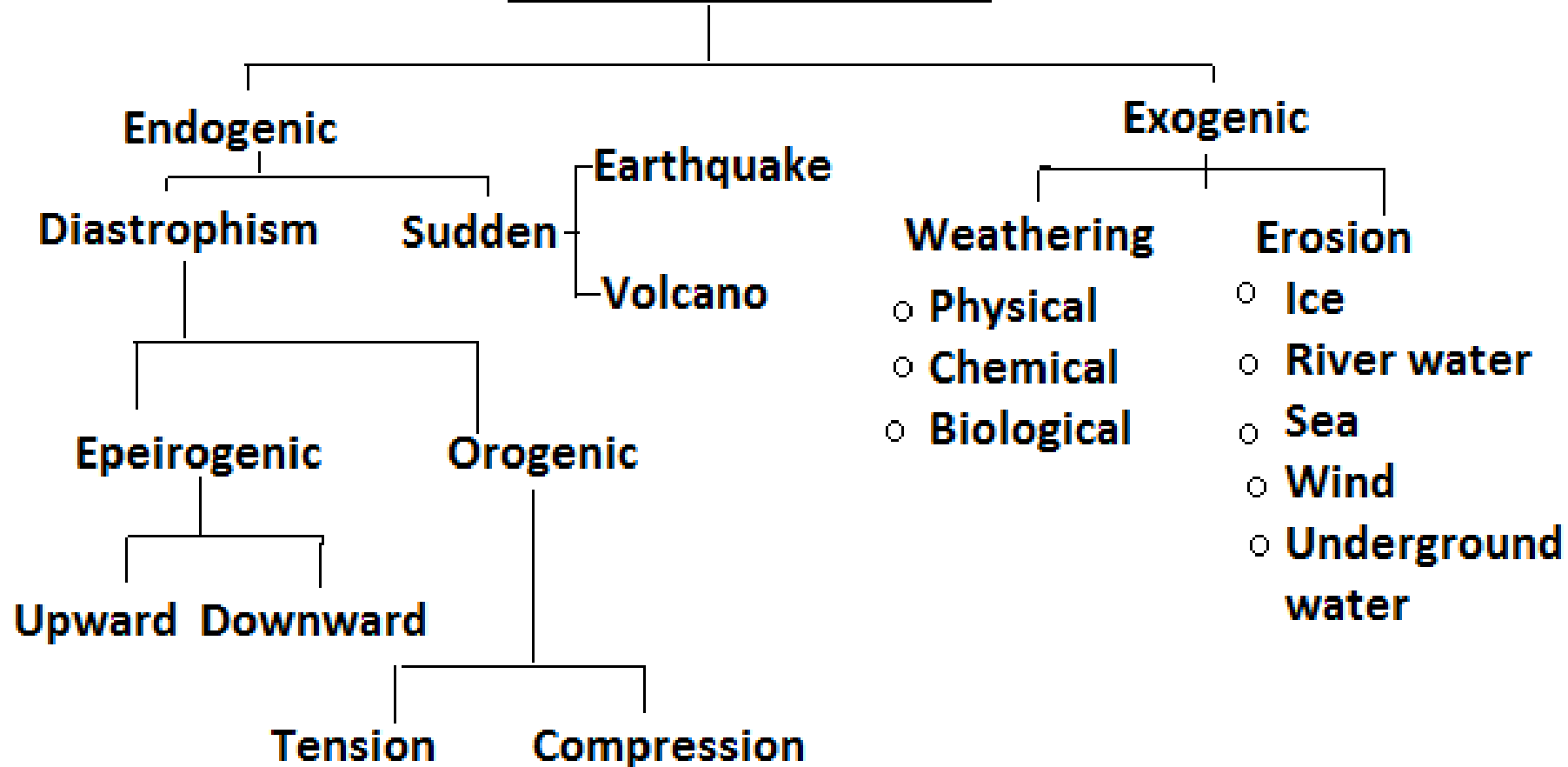
Which Force Helps In Geomorphic Processes

- A. Endogenetic Forces
- B. Exogenetic Forces
- C. Both a & b
- D. None

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Geomorphic processes

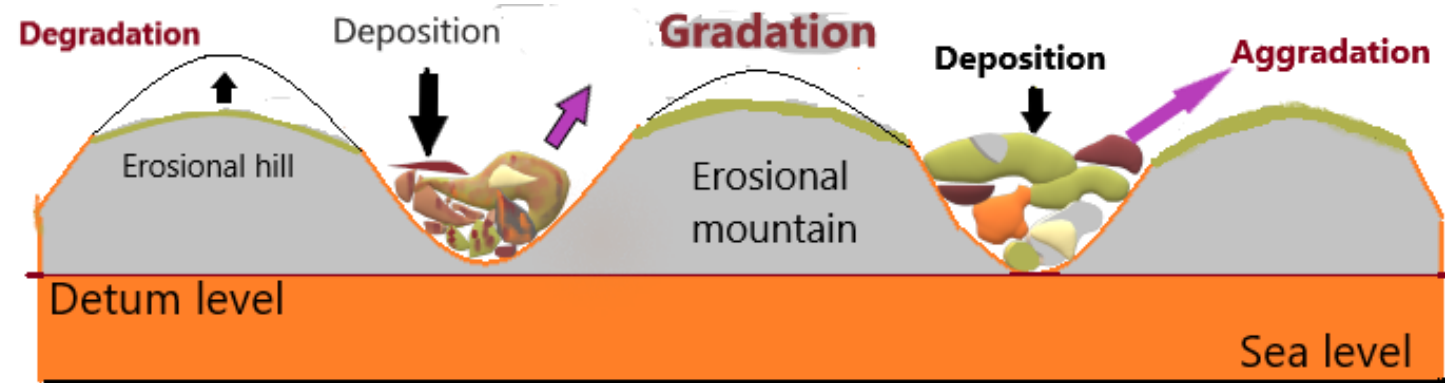


The Phenomenon Of Wearing Down Relief Variations Of The Surface Of The Earth Through Erosion Is Known As

- A. Weathering
- B. Degradation
- C. Aggradation
- D. Gradation

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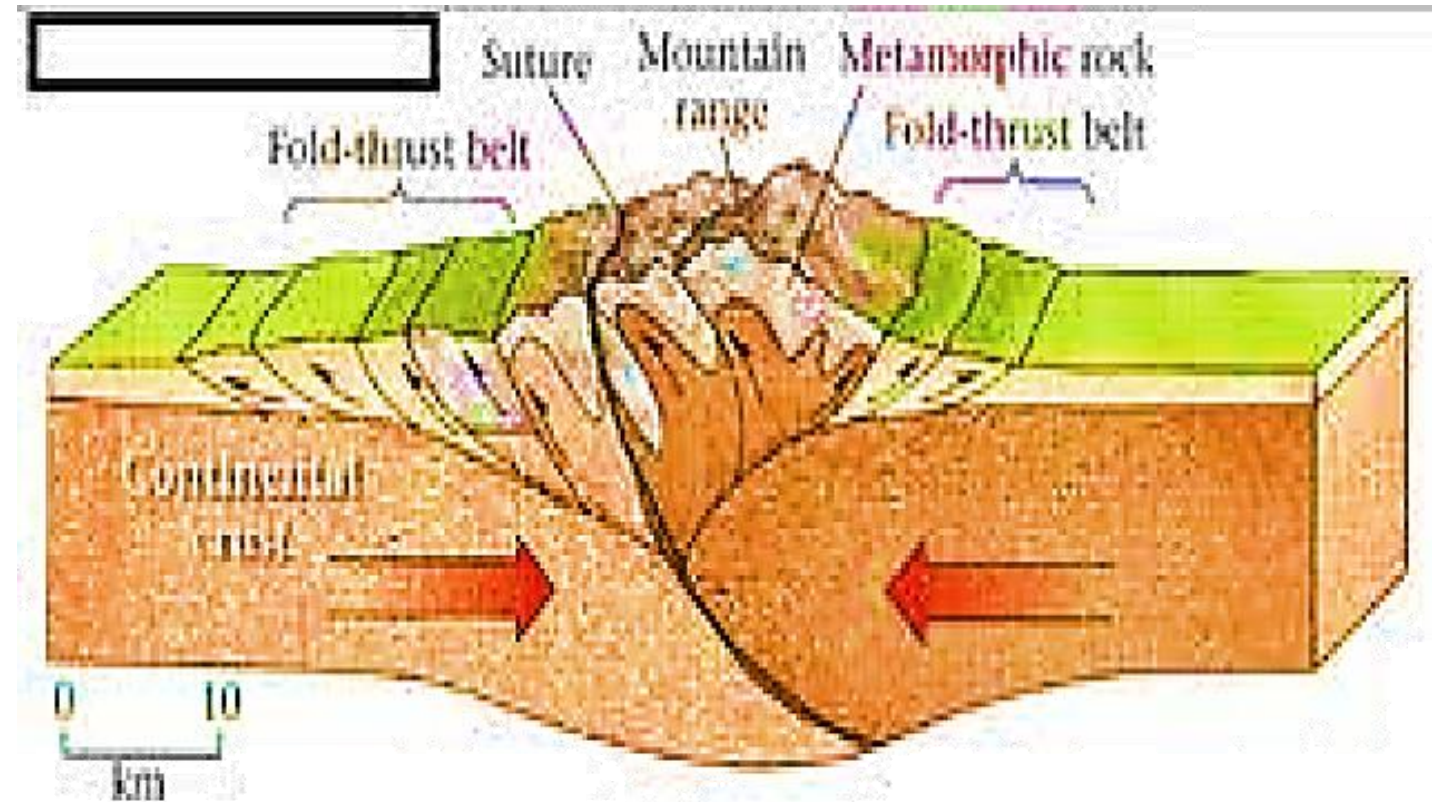


_____ Forces Continuously Elevate Or Build Up Parts Of The Earth's Surface

- A. Weathering
- B. Depositional
- C. Exogenic
- D. Endogenic

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Which Of The Following Processes Is Degradational Process

- A. Deposition
- B. Diastrophism
- C. Volcanism
- D. Erosion

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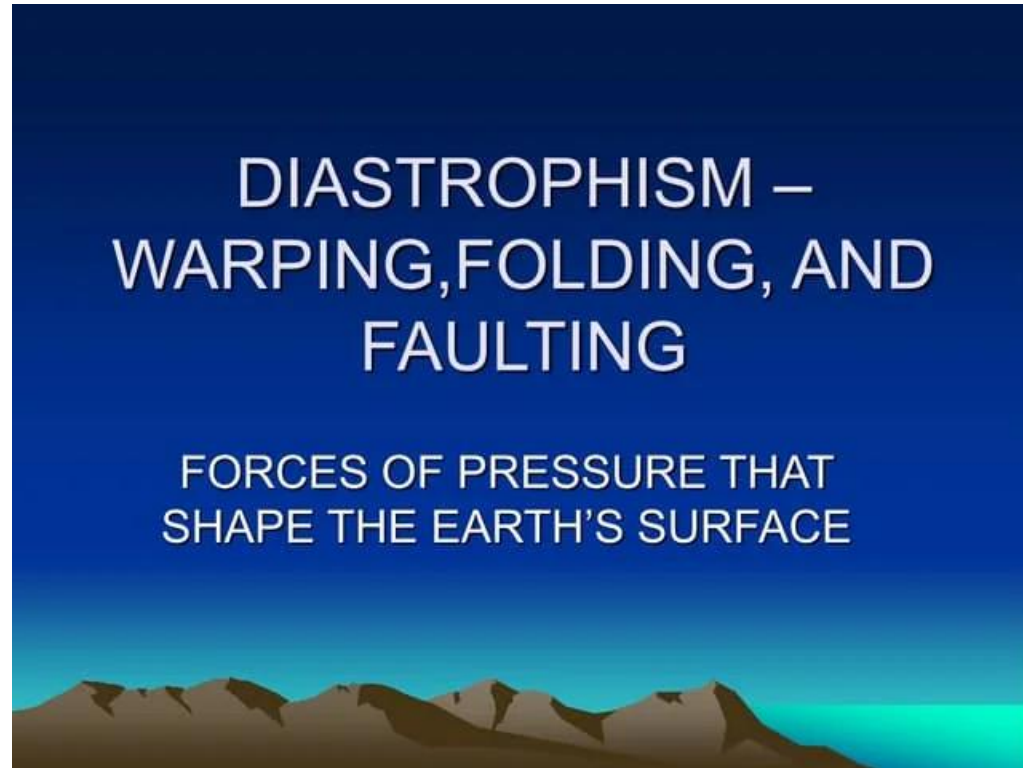
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All Processes That Move, Elevate, Or Build Up Portions Of The Earth's Crust Come Under

- A. Diastrophism
- B. Volcanism
- C. Exogenetic force
- D. Orogenic processes

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Which Of The Following Is The Continental Building Process

- A. Epeirogenic Processes
- B. Volcanism
- C. Earthquakes
- D. Orogenic Processes

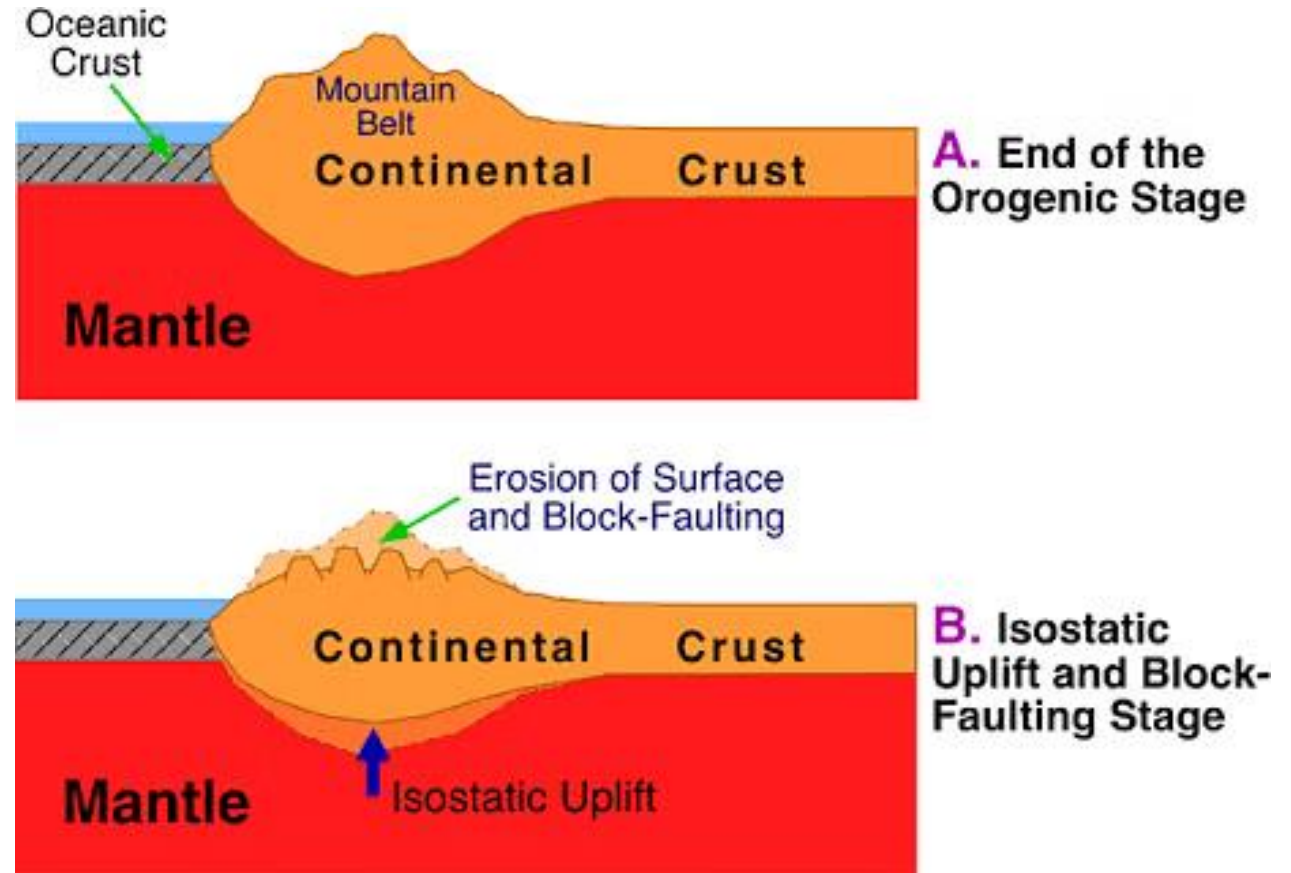
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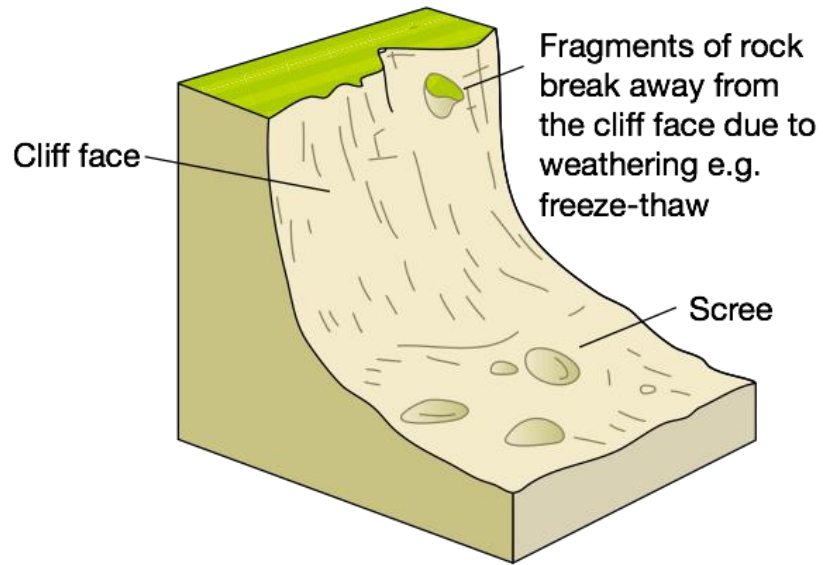
Which Of The Following Is Not A Major Cause Of Mass Movement

- A. Removal Of Support From Below To Materials Above Through Natural Or Artificial Means
- B. Overloading Due To Heavy Rainfall
- C. Indiscriminate Removal Of Natural Vegetation
- D. Afforestation

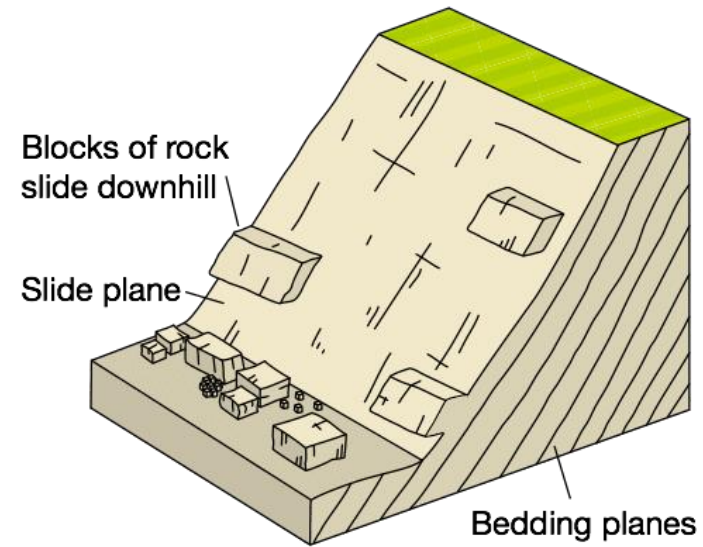
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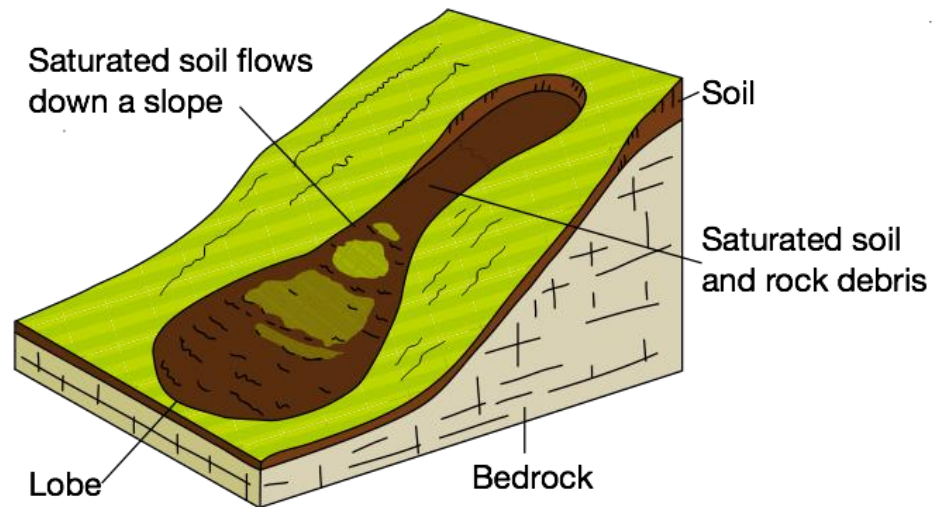
Rock fall



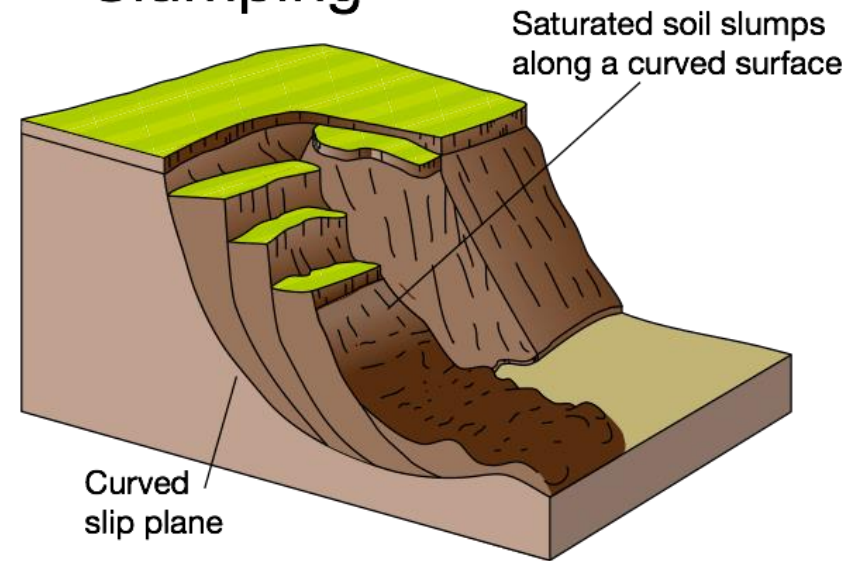
Landslide



Mud slide



Slumping



_____ Is Slipping Of One Or Several Units Of Rock Debris With A Backward Rotation In Landslides

- A. Slump
- B. Debris slide
- C. Rockslide
- D. Rockfall

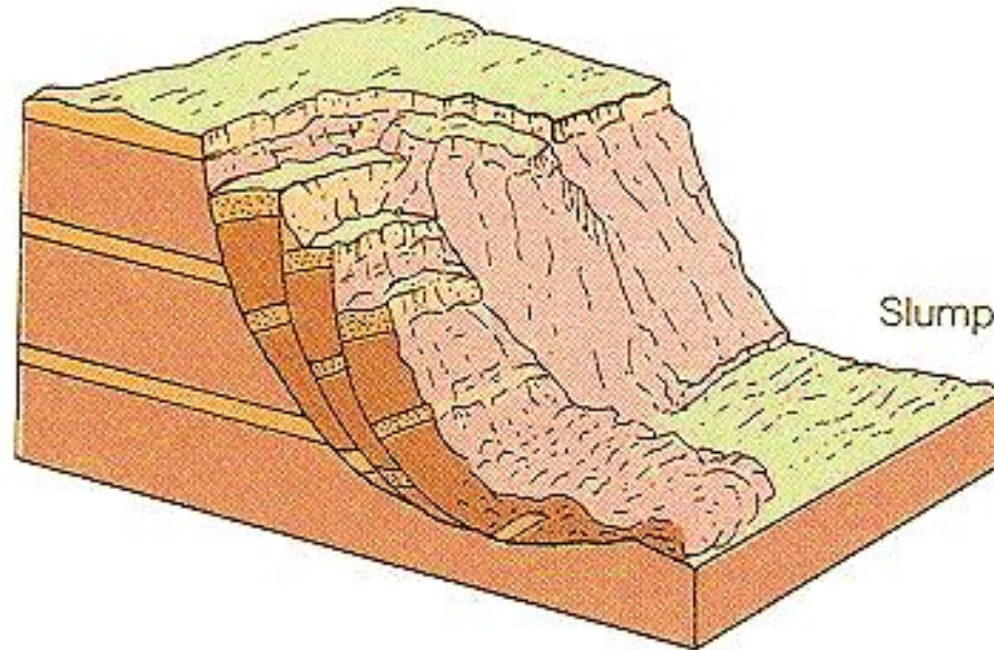
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Which Of Following Processes Are Associated With Diastrophism

- 1) Orogenic processes
- 2) Epeirogenic process
- 3) Earthquakes
- 4) Plate tectonics

Select the correct answer using the code given below.

- A. 1 and 4 only
- B. 2 and 4 only
- C. 1, 2 and 3 only
- D. 1, 2, 3 and 4

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All processes that move, elevate or build up portions of the earth's crust come under diastrophism. They include:

Orogenic processes involve mountain building through severe folding and affecting long and narrow belts of the earth's crust. In the process of orogeny, the crust is severely deformed into folds. Orogeny is a mountain building process.

Epeirogenic processes involving uplift or warping of large parts of the earth's crust. Due to epeirogeny, there may be simple deformation. Epeirogeny is continental building process.

Earthquakes involving local relatively minor movements.

Plate tectonics involving horizontal movements of crustal plates. All these processes cause pressure, volume and temperature (PVT) changes which in turn induce metamorphism of rocks

Consider The Following Statements About Endogenic And Exogenic Forces:

- 1) Diastrophism And Volcanism Are Endogenic Geomorphic Processes.
- 2) Weathering, Mass Wasting, Erosion And Deposition Are Exogenic Geomorphic Processes.

Which Of The Statements Given Above Is/Are Correct?

- A. 1 Only
- B. 2 Only
- C. Both 1 And 2
- D. Neither 1, Nor 2

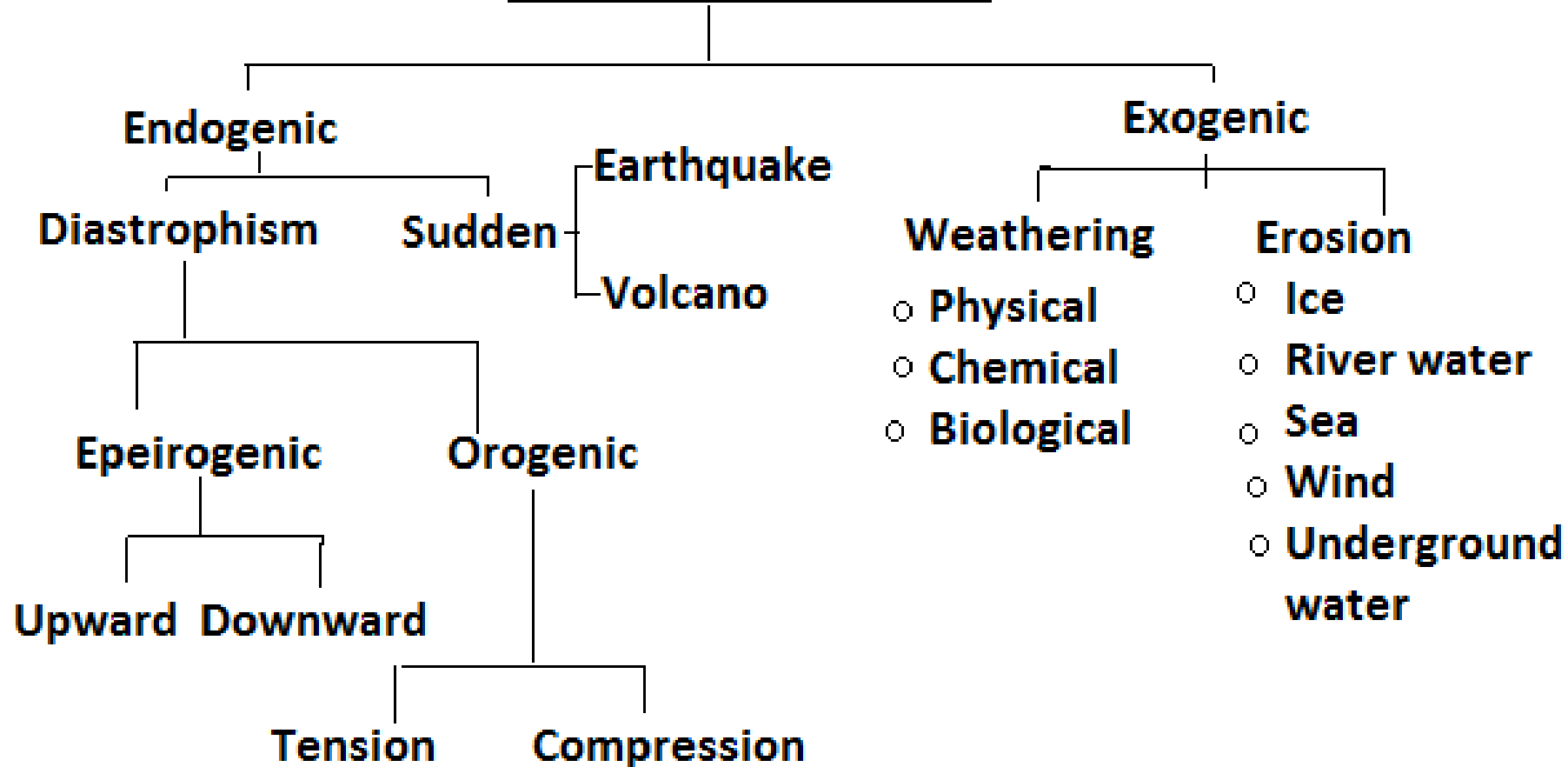
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Geomorphic processes



Which Of Following Is Not A Valid Reason For Debris Avalanches Or Landslides In The Himalayas

- A. The Himalayas Are Tectonically Active
- B. The Himalayas Are Mostly Made Up Of Sedimentary Rocks And Unconsolidated And Semi-consolidated Deposits.
- C. The Slopes Are Very Steep.
- D. The Himalayas Receives Heavy Amounts Of Rainfall Over Short Periods.

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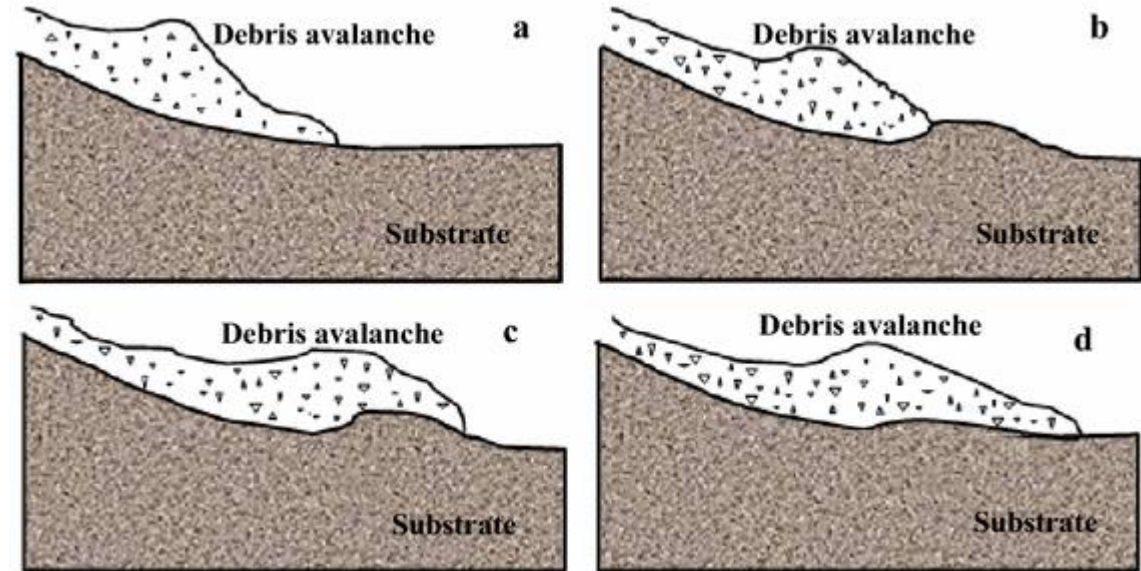
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Debris Avalanche Can Be Included In Which Category

- A. Landslide
- B. Slow Flow Mass Movements
- C. Rapid Flow Mass Movements
- D. Subsidence

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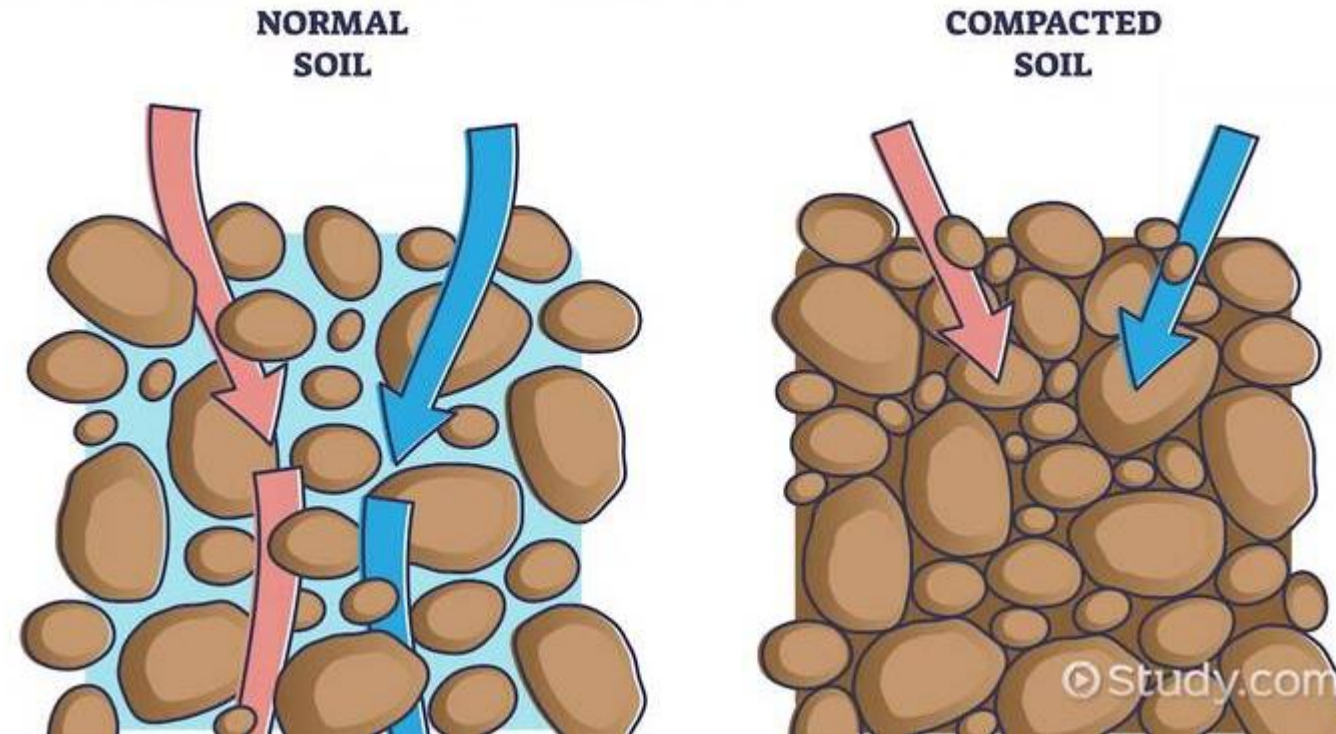


The capacity of rocks to allow water to pass through it is called

- A. Porosity
- B. Wedging
- C. Exfoliation
- D. Hydration

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Which one of the following materials is affected by the hydration process

- A. Granite
- B. Clay
- C. Quartz
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Weathering can be defined as

- A. Mechanical Disintegration Of Rocks
- B. Disintegration And Deformation Of Rocks With The Help Of Climatic Factors
- C. Chemical Composition Of Rocks
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Types of Weathering

```
graph TD; A[Types of Weathering] --> B[Physical]; A --> C[Chemical]; A --> D[Biological]; B --> B1[• Water Freeze and Thaw]; B --> B2[• Heat – Granular shattering]; B --> B3[• Pressure – Exfoliation, block disintegration]; C --> C1[• Oxidation]; C --> C2[• Carbonation]; C --> C3[• Salts]; C --> C4[• Solution]; D --> D1[• Flora]; D --> D2[• Fauna]; D --> D3[• Anthropogenic];
```

Physical

- Water Freeze and Thaw
- Heat – Granular shattering
- Pressure – Exfoliation, block disintegration

Chemical

- Oxidation
- Carbonation
- Salts
- Solution

Biological

- Flora
- Fauna
- Anthropogenic

Name The Process By Which Clay Or Other Fine Particles Go Down The Soil Profile

- A. Eluviation
- B. Illuviation
- C. Leaching
- D. Salinisation

Name The Process By Which Clay Or Other Fine Particles Go Down The Soil Profile

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What are the differences between eluviation and illuviation?

Eluviation is the *leaching down or movement* of the particles (such as minerals and organic matter) into lower soil horizons. While,

Illuviation is the *accumulation* of those particles in the lower soil horizons.

Which one of the following materials is affected by hydration process

- A. Granite
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The Energy Emanating From Within The Earth Is Main Force Behind Endogenic Geomorphic Processes. This Energy Is Mostly Generated By:

- 1) Radioactivity
- 2) Rotational And Tidal Friction
- 3) Primordial Heat From The Origin Of The Earth

Select The Correct Answer Using The Code Given Below.

- A. 1 Only
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This Energy Is Mostly Generated By **Radioactivity, Rotational And Tidal Friction And Primordial Heat** From The Origin Of The Earth. This Energy Due To Geothermal Gradients And Heat Flow From Within

Which Of The Following Processes Are Associated With Denudation

1) Weathering

2) Erosion

3) Mass movement

Select The Correct Answer Using The Code Given Below.

A. 1 Only

B. 1 And 2 Only

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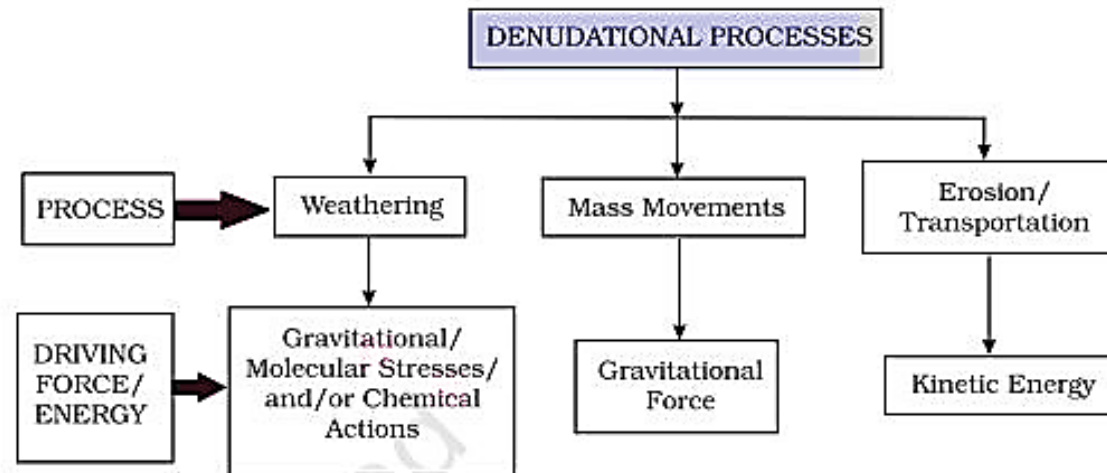
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Denudational processes and their driving forces

Removal Of Silica From The Soil Is Known As

- A. Capillary Action
- B. Leaching
- C. Desilication
- D. Illuviation

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Consider Following Statements Regarding Chemical Weathering:

- 1) Wetting And Drying Of Rock May Result In Chemical Weathering.
- 2) Oxidation Of Rock Results In Chemical Weathering.

Which Of The Statements Given Above Is/Are NOT Correct?

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Types of Chemical Weathering

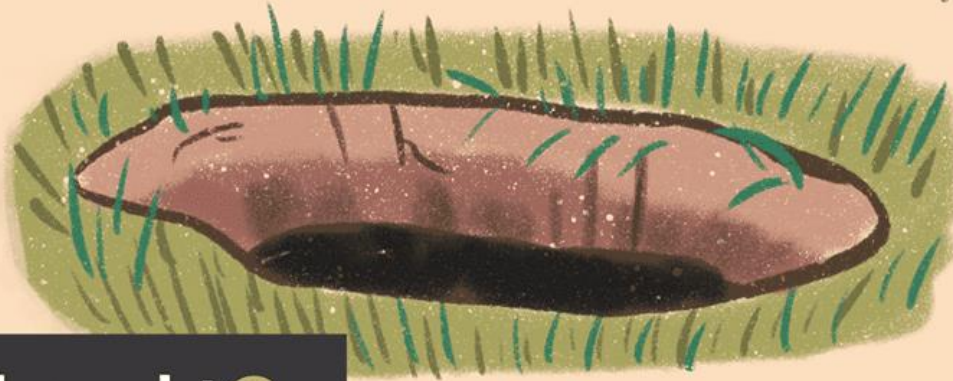
Reaction With Water



Reaction With Oxygen



Reaction With Acid



Reactions With Organisms



Wetting And Drying Of Rock Is A Chemical Weathering Process.

Hydration Is The Chemical Addition Of Water. Minerals Take Up Water And Expand; This Expansion Causes An Increase In The Volume Of The Material Itself Or Rock. Calcium Sulphate Takes In Water And Turns To Gypsum, Which Is More Unstable Than Calcium Sulphate.

Oxidation Occurs Where There Is Ready Access To The Atmosphere And Oxygenated Waters. The Minerals Most Commonly Involved In This Process Are Iron, Manganese, Sulphur Etc. In The Process Of Oxidation Rock Breakdown Occurs Due To The Disturbance Caused By Addition Of Oxygen.

Consider The Following Statements Regarding Weathering:

- 1) Gravitational Force Has No Impact On Physical Weathering.
- 2) Both Chemical And Physical Weathering May Result In Exfoliation.
- 3) Unloading Of Rocks Favors Physical Weathering.

Which of the statements given above is/are correct?

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- **Gravitational Force** Affects Both Physical As Well As Chemical Weathering.
- **Exfoliation** Can Be Caused By Both Physical As Well As Chemical Weathering.
- **Unloading Of Rocks** Favors Physical Weather As The Pressure Above The Rock Decreases And Rock Expands.
- **Freezing, Thawing** And Frost Wedging Results In Physical Weathering As It Results In Periodic Expansion And Contraction Of The Rocks.
- **Salt Weathering** Results In Physical Weathering. Salts In Rocks Expand Due To Thermal Action, Hydration And Crystallisation.

_____ Are Relatively Rapid And Perceptible Movements

- A. Exfoliation
- B. Mass Movement
- C. Landslides
- D. Soil formation

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What Are Geomorphic Causes Of Erosion

- A. Flowing water
- B. Underground water
- C. Air
- D. All of the above

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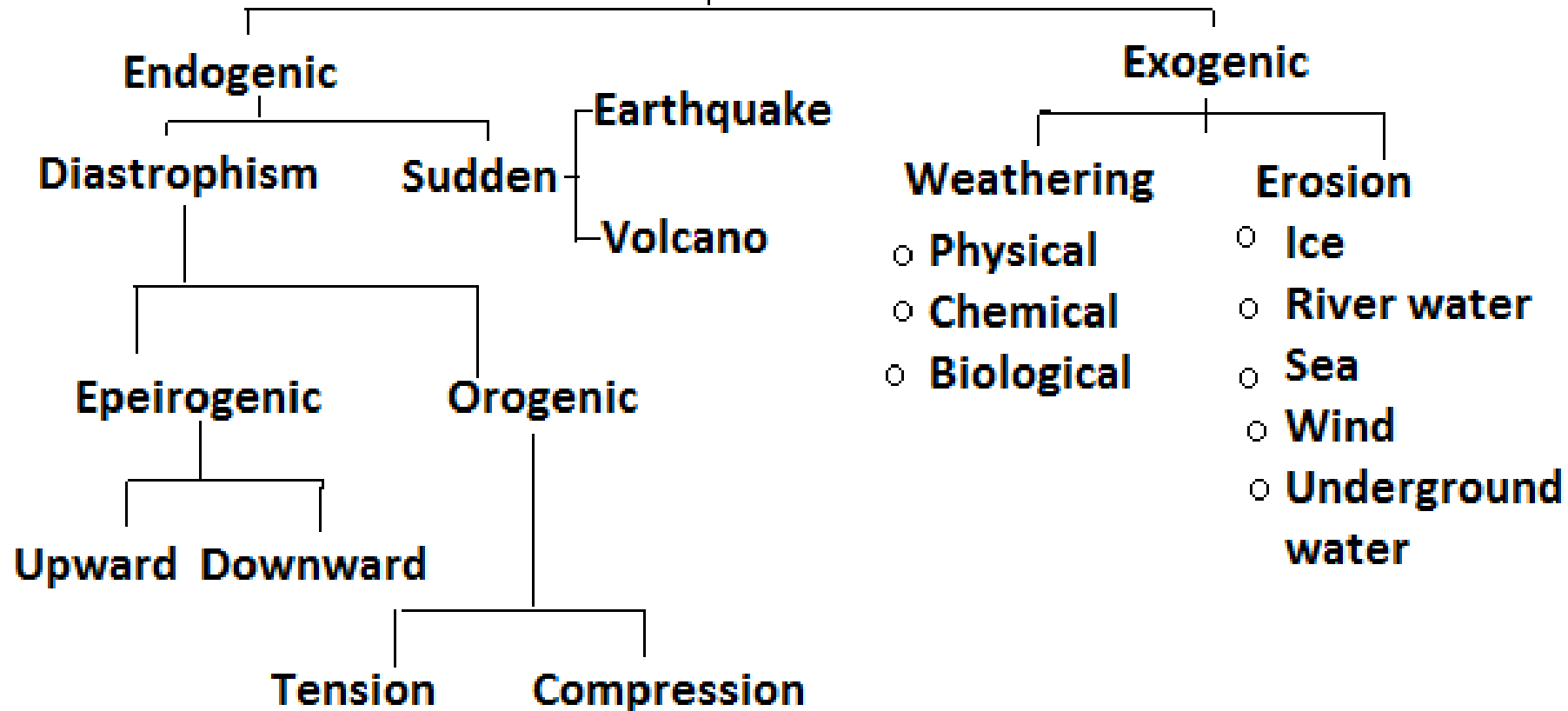
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- A. Balance Orogenic Processes
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Geomorphic processes



Which One Of The Following Helps In Aerating The Soil

- A. Micro Fauna
- B. Meso Fauna
- C. Macro Fauna
- D. All Of The Above

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_____ Are Aided By Gravity And No Geomorphic Agent Like Running Water, Glaciers, Wind, Waves, And Currents Participate In The Process Of _____

- A. Exfoliation
- B. Mass Movement
- C. Landslides
- D. Soil formation

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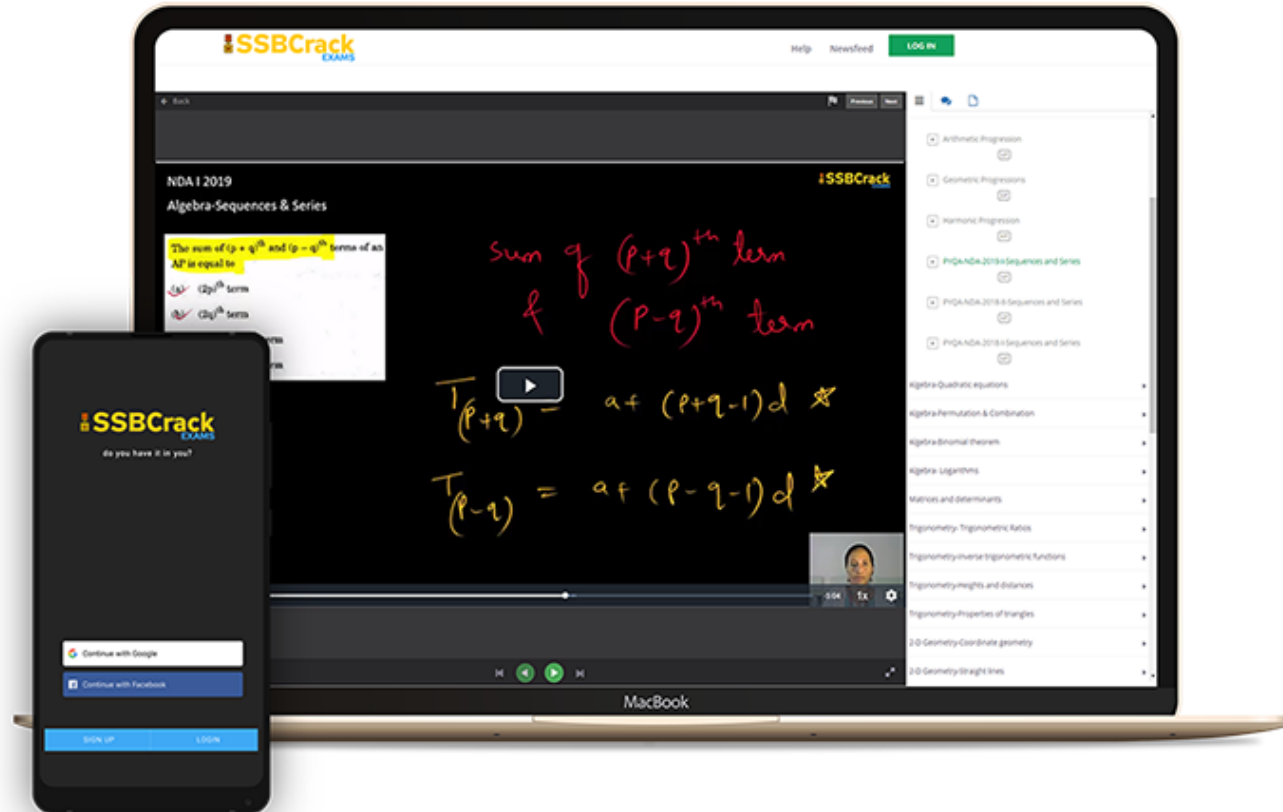
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