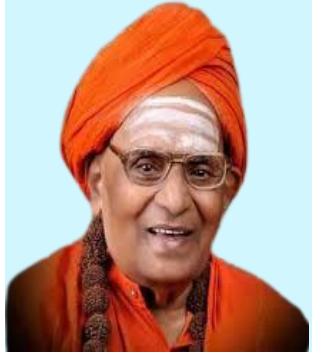


MOUNTAINS: CRUCIAL TO LIFE



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Mountains: Magnificent structures of nature



- A **mountain** is an elevated portion of the Earth's crust, generally with steep sides that show significant exposed bedrock.



Vindhya Mountain Range

Mountains

- Mount Everest: 9 kms height (8849 meters)
- Olympus Mons: 22 kms height
- 1000 feet height mountain
- Less than 1000 feet hills
- Movements of Tectonic Plates: Indian and Asian Plates
- 70 million years to form mount everest
- Mouna Kia in Pacific ocean
- Types: Fold,
- Fault block
- Volcanic

Mountains are crucial to life







Mountains of Peninsular Plateau

Aravalli, Vindhya, Satpura, Western Ghats
& Eastern Ghats



We are connected to mountains whether we live at sea level or the highest elevations



We are affected by them in more ways than we can imagine

- Because of their height, mountains act as water towers, diverting air masses and forcing them to rise, cool and fall as rain or snow.
- Water flowing from mountains doesn't just provide essential drinking water; it also sustains food production for more than half of the world's population
- Mountains can affect the climate of nearby lands.
- In some areas, mountains block rain, so that one side of a mountain range may be rainy and the other side may be a desert.
- Much of airborne moisture falls as rain on the windward side of mountains.



The UN General Assembly designated in 2003



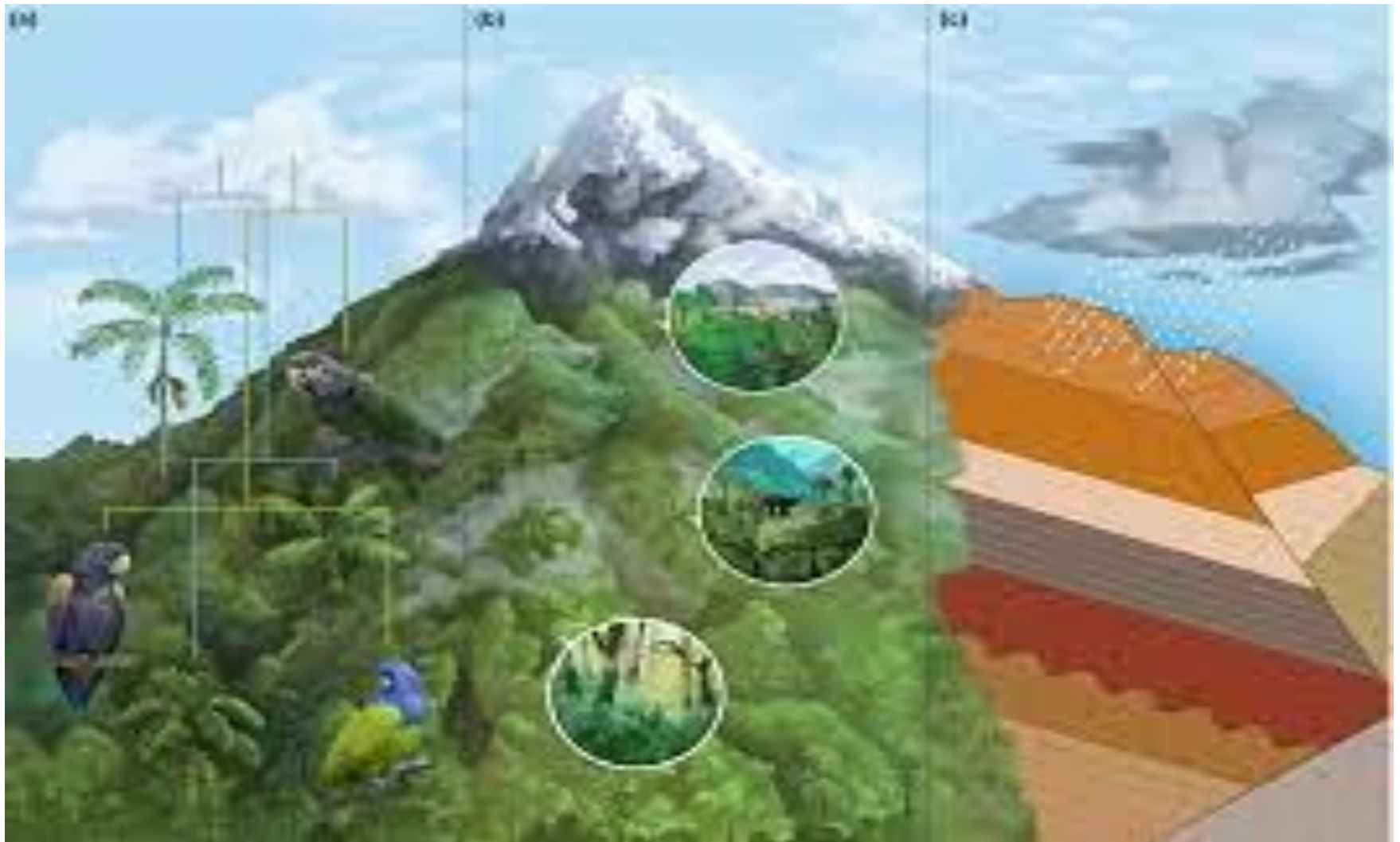
INTERNATIONAL MOUNTAIN DAY

DECEMBER 11

Theme of 2020: 'Mountain biodiversity'



Mountains have high bio-diversity



Why Mountain day?



- It is an opportunity to create awareness about the importance of mountains to life
- to built partnerships that will bring positive change to the world's mountains and highlands



Mountains are crucial to life



- Provides most of the world's fresh water
- harbours a rich variety of plants and animals
- Provides a home to one in ten people
- Each day we notice environmental degradation,
- climate change,
- exploitative mining,
- armed conflict,
- poverty and hunger
- threatened the extra ordinary web of life that the mountains support

Mountains are crucial to life



- Mountains cover about 1/5 of the world's land surface
- Occur in 75% of the world's countries
- Provide homes to at least 1/10 of the world's people
- About 80% of the planet's fresh water originates in the mountains
- All the world's major rivers are fed from mountain sources
- Some of the highest mountains are at the bottom of the sea
- Hawaii is at the top of a volcanic mountain in the Pacific ocean

Mountains are crucial to life



- With more than half mountain below water
- Mountain ranges are long chains or groups of mountains
- Rocky mountains or Himalayan mountains
- Ranges are usually 1000 or more miles long
- The highest mountain is known in the universe is Olympus Mons a giant volcano on Mars, almost three times the height of Mount Everest

Mountains are crucial to life



- India is lucky to have many kinds of mountains
- Hill ranges
- High lands



Mountains



- Mountains are visually exciting and glamorous
- Look at the Himalayas (i.e. abode of snow)
- Mountain ranges form a tent like roof for the whole country
- Keeps the cold dry Siberian winds out of the country
- It is the highest mountain mass in the world with several peaks which rise above 20000 feet (6080 meters)
- The next highest points are found in the southern part of the country
- The Nilgiris and Annamallai ranges

Mountains



- In between in the heart and stomach of the country
- High ranges alternate with valleys and planes
- If the country had been totally flat, without mountains and hills, it would have been a desert
- Mountains and hills make the land productive
- They keep the climate in balance
- Help the rivers and streams over a vast area to give life and fertility to the land and support agriculture

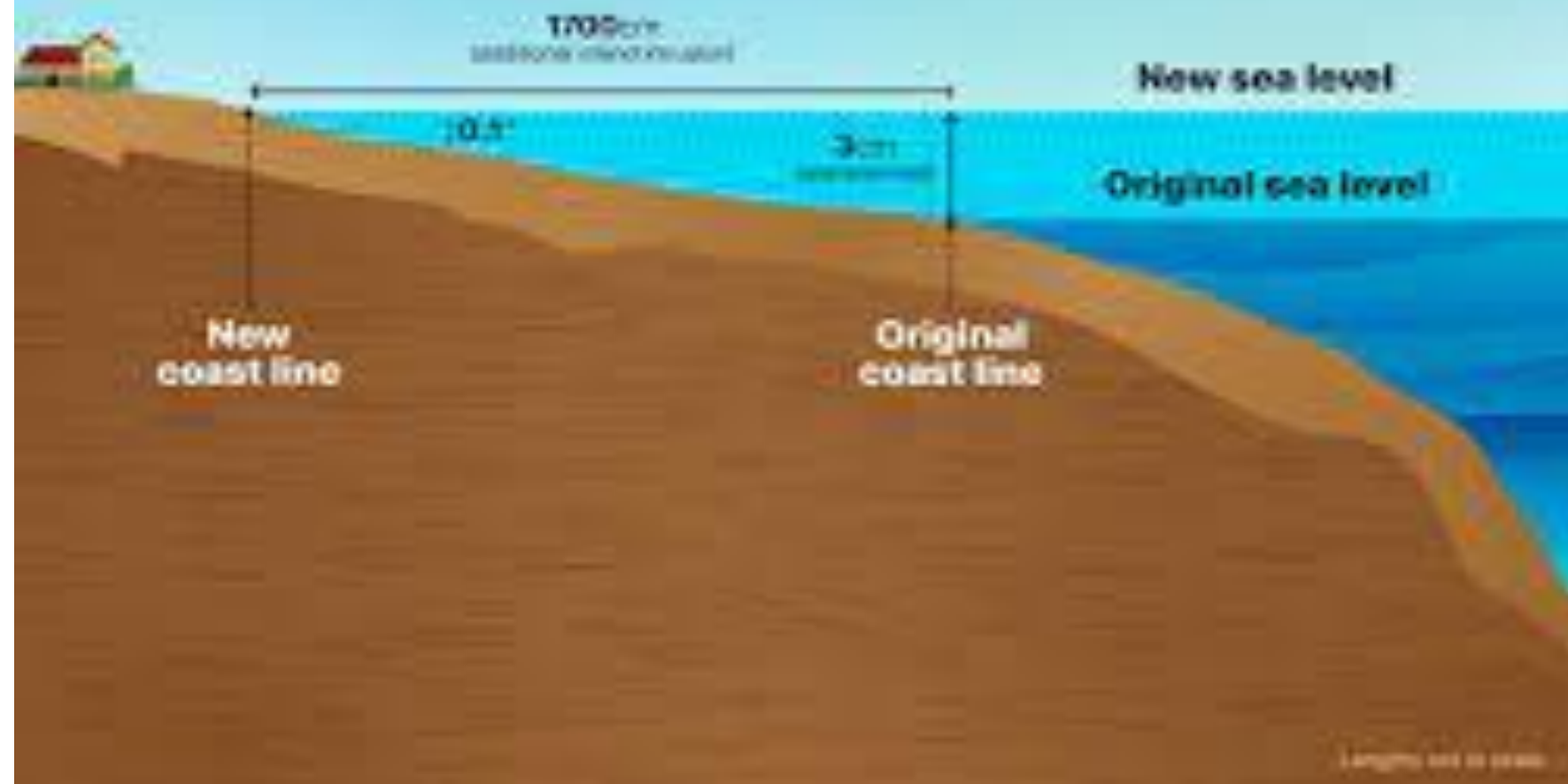


Mountains



- The forests at the foot of the mountains keep the various types of vegetation in an orderly manner
- Like the Himalays, the western Ghats
- Also play an important role in controlling and directing the monsoon
- The other ranges like Satpuras, the Vindhya, the Aravalis the Kashi and the Garo hills
- In the east also play similar roles to some extent
- Don't you think we are lucky to have such a landscape in our country?
- But are we maintaining the landscape or ruining it?

Sea level rise and additional inland intrusion



Beauty of nature: Mountains and rivers



A large white graphic of a house outline. The roofline is a jagged line that ends in a heart shape on the right side. The house has a chimney on the right side.

**STAY
HOME**
STAY SAFE

Questions





Thank
You!