Chapter – 6: Human Environment Interactions – The Tropical and Subtropical Regions

- Renuka was excited her Uncle Shrikant returned after 4 months
- Mr. Shrikant wildlife photographer travelled a lot
- Renuka's interest started at early age liked pictures of far away lands and people living there
- Uncle showed some pictures lots of different people
- Renuka was thinking they look so different
- Uncle explained they may look different BUT they need same basic things food, clothing, shelter their children behave like everybody else

Life in the Amazon Basin

- Amazon basin tropical region between 10⁰ N and 10⁰ S very close to equator
- This region referred to as **equatorial** region
- River amazon flows through here flows from mountains in the west to Atlantic Ocean in the east
- Region river flows into another water body **mouth**
- Lots of other rivers join Amazon river form Amazon basin
- River basin drains portions of Brazil, Peru, Bolivia, Ecuador, Columbia, Venezuela



Climate

- Amazon basin stretches on the equator hot and wet climate throughout the year
- Day and night equally hot and humid skin feels sticky
- Rains everyday without warning
- Days high temperature very high humidity nights temperatures goes down humidity remains high

Rainforests

- Rains heavily thick forests
- Forests so thick leaves and branches create a roof no sunlight reaches the ground
- Ground dark and humid orchids, bromeliads grow as plant parasites
- Rich in fauna (animals) toucans, humming birds, macaw eating habits different from Indian birds
- Animals monkeys, sloth, tapirs (eats ant)

- Various species reptiles, snakes found here
- Lots of insect species also live here
- Many fish species also found in the river including piranha (flesh eating fish)

People of the Rainforests

- Grow food small areas after clearing forests
- Men hunt and catch fish women take care of crops
- Main crops tapioca, pineapple, sweet potato
- Cropping technique slash and burn
 - Clear the land cutting trees
 - o Burn the remaining parts provides nutrients to soil
 - This land cultivated for some time loses its nutrient content
 - o Left undisturbed for some years after some years regains its nutrient content
- Hunting, fishing uncertain women feed vegetables to their families
- Main diet manioc (cassava) grows under the ground like potato
- They also eat queen ants and egg sacs (collection of eggs)
- Financial crops coffee, maize, cocoa also grown here
- Rainforests provides wood for houses
- Some houses thatched (grass roof) other houses like an apartment Maloca slanting roof
- Life of people slowly changing
- Older days main part of forest can only be reached through river
- 1970 Trans Amazon highway all parts of rainforest accessible
- Aircrafts, helicopters also used to reach places
- Original population pushed out from their area forced to settle in new areas
- Developmental activities gradual (slow and sure) destruction of rainforests
- Large areas disappearing annually
- Top soil washed away by rain dense forest turned into barren landscape

Life in the Ganga-Brahmaputra Basin



- Ganga, Brahmaputra along with supporting rivers (tributaries) form the basin
- Lies in the sub-tropical region -10^0 N to 30^0 N latitudes
- Tributaries of Ganga Ghaghra, Son, Chambal, Gandak, Kosi AND tributaries of Brahmaputra
 drains this region

- Plains of Ganga, Brahmaputra mountains foothills of Himalayas Sundarbans delta all main features of basin
- Area dominated by monsoon climate
- Rains between mid-June to mid-September
- Hot summers cool winters
- Basin area varying topography imp. role distribution of population
- Mountain areas steep slopes inhospitable terrain low population
- Plain area most suitable for living and agriculture high population
- Main crop paddy requires lots of water grown where rainfall is high
- Other crops wheat, maize, sorghum, gram, millets
- Financial crops sugarcane, jute
- Some areas banana plantations
- West Bengal, Assam tea plantations
- Bihar, Assam silk farms silk produced from silkworms
- Hills and mountains gentle slopes terrace farming
- Vegetation cover vary with the landforms
- Deciduous trees along with teak, sal, peepal
- Thick bamboo forests also found in this area
- Delta area covered with mangrove forests
- Uttarakhand, Sikkim, Arunachal Pradesh coniferous trees pine, deodar, fir
- Variety of wildlife common animals elephants, tigers, deer, monkeys
- One-horned rhinoceros found in Brahmaputra plain
- Delta area Bengal tiger, crocodile
- Fresh water rivers, lakes, Bay of Bengal sea variety of aquatic life rohu, catla, hilsa
- Main diet fish and rice
- Several big towns and cities
- Along river Ganga Allahabad, Kanpur, Varanasi, Lucknow, Patna, Kolkata population over 10 lakhs
- Wastewater from towns discharged into rivers pollutes the rivers
- All 4 ways of transport well developed here
 - Plain areas roadways, railways
 - o Along the rivers waterways popular transport medium
 - Kolkata imp. port river Hooghly
 - Lots of airports also available
- Tourism another imp. activity
 - o Taj Mahal banks of river Yamuna Agra
 - o Allahabad confluence (joining) of Ganga and Yamuna
 - o Buddhist stupas Uttar Pradesh, Bihar
 - o Imambara Lucknow
 - o Kaziranga, Manas wildlife sanctuaries Assam
 - o Unique tribal culture Arunachal Pradesh