Class-X Ch-2 (Geography) · Forest and Wildlife Resources

- · Introduction :
- → Interdependence [Plant, animals, Soil, Jonest]

 Biodivensity: Species Diverse in Jam and function but closely integrated in a System through multiple network of interdependencies.



- · Flora and fauna in India
- → 8% total Species in the world [1.6 Million]
 - · 81,000 Species of Journa
 - · 47,000 Species of llora [15,000 flowering Species are endemic to India]
- 10% [wild flora] and 20% of mammals are on threatened list.
 - · cheetah, pink-headed duck, mountain quail, forest Spotled owlet
 - · Madhuca insignis [wild Mahua], Hubbardia [A Species of grass]
- → Pace of Extinction.



- · Vanishing lonest
- -> Total porest Cover = 24.01 /. [78.92 Million hectame]
- · Dense Jonest = 12.24 %
- · Open | onest = 8.99%
- · Mangroves = 014%.
- -> According to state of forest Report forest area 1 by = 10,098 sq/km Since 1997
- > Limitation ??
- > It does not differentiat between natural lonests and Plantations



- · IUCN's Classification
- (i) Normal Species
- > population level are normal for their Survival ex + Cattle, Sal, Pine
- (ii) Endangened Species
- → In danger of Extinction → Survival may not be possible if threats to their population Continous to operats. ex : Black buck, lion tailed Macaque

- Mi). Vulnerable Species
- > Decline in the population, from where they are likely to move into the endangend category, if the threat Continous to operate.
 - ex+ Blue sheep, Asiatic elephant Gangetic dolphin
 - (iv). Rone Species
 - (v). Endemic Species
 - (vi) Extinct Species





- · IUCN's Classification
- 7 International union for Consulvation of nature and
 (i). Normal Species Natural Resources.
- (ii) Endongened Species
- (iii) Vulnerable Species
- liv). Rane Species
- → All neady Small population
- → May move into Endangered Or vulmenable

 Category if the threats to their population

 Continous to operate
- Ex: Himalayan brown bear, wild Asiatic bullalo

- (V) Endemic Species
- > found in some porticular area
- → Isolated by natural on geographical barniers
- > Ez: Andaman teal, Nicobar pigeon
- (vi). Extinct Species
- → Not found after Searches, where earlier they used to occur
- A species may Extinct from, local area region, Country, or the entire earth. ex! Asiatic cheetah, pink head duck





- · Asiatic cheeta where did they go ??
- > Fastest land mammal 1124/m
- → Dillerence between cheetah and leopand
- Asiatic cheetah is nearly Extinct due to decline in habitat and Prey.
- > Extinct in India Since 1952

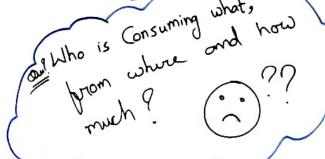


- · Depletion of Flora and Fauna
- -> Factors Responsible for the depletion of the flora and Jauna?
- (i). Loss during colonial period
- Railways, Commercial and Scientific forestry
- → Enrichment plantation [ex: Teak = Natural Jonest of South India : chin pine in Himalayas = Himalayan Oak]
- > Mining activities
- (ii) Agricultural Expansion
- > According to forest Survey of India 26,200 salker of forest area = Agriculture area
- >"Slash and burn agriculture [Thum] in north eastern and Central India.



- · Depletion of Flora and Fauna
- factors Responsible for the depletion of the flora and Jauna?
- (iii). Large Scale developmental projects
- → Since 1951, 5000 sq/km of prest was cleaned for River valley project
- > Narmada Sagar project [M.P] would inundate 40,000 Hectares
- > Dolomite Mining [Buxa tiger Reserve in W.B]
- (iv) Human and Natural factors

 > Grazing and Juel-wood collection [lopping x felling]
- > Expanding industrial economy.
- Habitat destruction, Hunting, poaching, over exploitation, Environmental pollution, poisoning and forest fine etc.

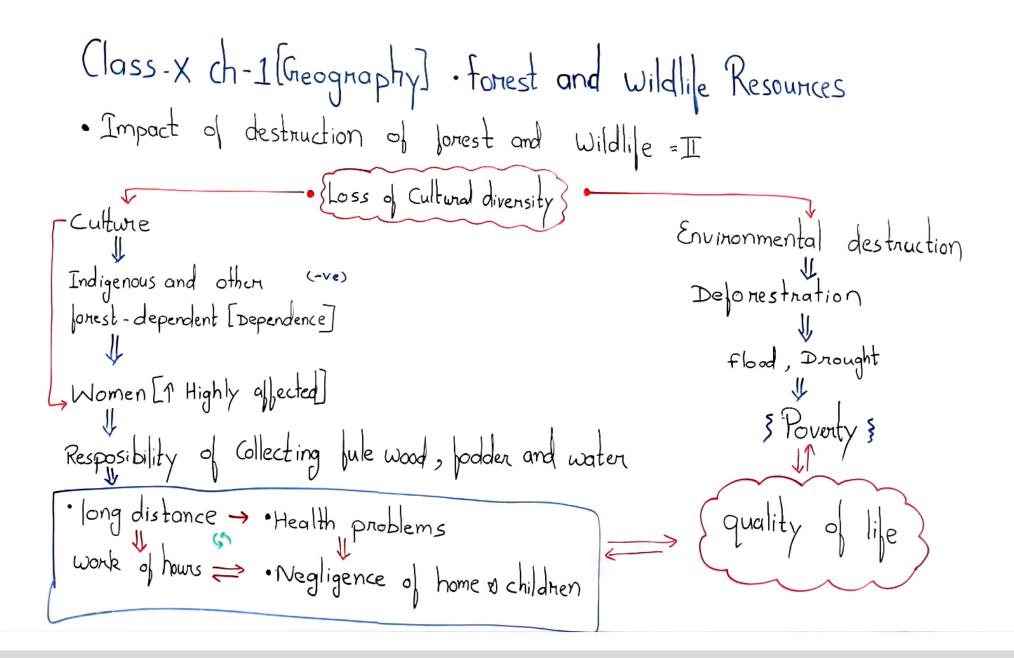


- · Impact of destruction of prest and wildlife
 - · ½ of Natural forests one gone
 - · 13 of wetland's drained out
 - · 70% of Surface water bodies are polluted
 - . 40% Mangroves wiped out
 - . Thousands of Species are heading towards Extinction

Diological issue??

loss of Cultural divensity





- · Conservation of lonest and wildlife In India
 - 1. why do we need it ??
 - 2. Step's taken ??
 - 3. Project tiger ??
- The serves genetic diversity

 Ex: Traditional (rop Varieties

Fisheries on aquatic biodiversity.

- · Conservation of lonest and wildlife In India = II

 2. Steps taken
- · Indian wildlife protection act [1972]
- · An all-India list of protected Species was published
- · Banning hunting, giving legal protection to their Habitat, Restricting trade in wildlife
- · Establishment of National parks and wildlife Sanctuaries
- · Projects to protect Specific animals, Such as tigen, one honned Rhinoceros three types of Crocodiles, Asiatic lion etc.
- · Project => Biodiversity => Insects => Notification of wildlife Act of 1980 and 1986
 Buttenlies, Moths. Inagon lly have been added to protected liet
- Buttenlies, Moths, dragon by have been added to protected list.

 In 1991 Six plant species were also added to protected list.





- · Conservation of prest and wildlife In India III 3. Project tigen.

 1 Population from 55,000 to 1,827 [In a Century]
- · Reasons?? = Poaching for trade, shrinking habitat, depletion of prey base

 Species, growing human population, the trade of tigen skin, bone for traditional Medicines.

 · India and Nepal Habitat of 3 Surviving tigen population. Now these areas are prime
- target Project tiger launched in 1973
- => Population . 4,002 1 1985 . 43341 1989 . 3,600 + 1993 . 2.226 + 2014
- . 39 tigen reserves ext Conbett National park in UK, Sunder ban National Park W.B Bandhouganh National Pank in M.P and Many more
- · umberiella programme.





- · Types and Distribution of lonest and wildlife Resources

- · Most valuable
- · strictly regulated
- · Jok, Andra P., U.K, Kenala, T.N, W.B, Mahanashtra
- (ii) Protected Fonest
- · almost is of total forest area
- · Protected from any Junther depletion
- · Bihan, Hanyana, Punjab, H.P, Orissa, Rajasthan

- (i). Reserved forests

 More than \$\frac{1}{2}\$ of total forest land

 ** Reserved + Protected = Permanent forest producing timber and other lonest produce.
 - (iii). Unclassed forests
 - -> Other porest area and wasteland of gout.
 and Private individuals and Communities.
 - → Open Category → North Eastern states and Gujnat.





Class-X ch-2 [Greography] forest and Wildlife Resources Community and Conservation - I

- -> Traditional System of Conservation by Specific Community
- · Struggle of local Communities
- (1) In Saxiska Tiger Reserve, Villagers lought against mining by Citing wildlife Protection act.
- (i) Alwan district of Rajasthan, 5 villages decleaned 1,200 hectores of forest as the "Bhairoder Dakor Sonchuni, having their own set of Rules and Regulations



Class-X ch-2 [Greography] forest and Wildlife Kesources Community and Conservation - I

- · [hipko Movement
- -> Resisted deforestation and also nevived the traditional Conservation by Community afforestation.
- · Beej <u>Bachao Andolan</u>
- In Tehni and Navdanya, diverse variety of Crop is produced without the use of Synthetic and chemicals.

- · JFM [Toint Forest Managment]

 → Involving boal Communities in restoration of degraded forests.
- → In 1988, State of Onissa Passed first resolution for JFM.
- > local Institute takes up the protection activities on lards Managed by gout.
- · Provided with non-timber benift and share in timber harvested by "successful protection"





Class-X ch-2 [Geography] forest and Wildlife Resources Community and Conservation - III [Sacred groves]

- · Tribal Belief
- · Nature Worship
- · preserved Several prests
- · Sacred Ginoves [The prests of god and goddesses]

- =: Munda and Santhal of Chota nagpur worship Mahua and kadamba
 - · Tribes of Orissa and Bihar worship tamarind and Margo during weddings
 - . In general peepal and Banyan tree is
- Considered as sacred.

 Sacred qualities are often Connected with

 Springs, Mountains, peaks, plants and animals.

 In Bishnoi village of Rain II
 - · In Bishmoi village of Rajusthan, herds of Blackbucks, nilgai and peacaks are integral pant.



· Class-x ch-2 [Greogamphy] · Fornest and Wildlife Resources * Frequently Asked Questions

- 1 Write a not on flora and fauna in India?
- 2 What are the various categornies of species classified by IVCN7 [specific]
- 3 Reasons or depletion of Asiatic cheetah?
 - @ Colonial Porest policy D Agricultural Expansion @ Large Scale displacement
 - 1. Human and Natural factor.
- (9) Impact of destruction of forest and wildlife? (a) on Nature (B). Social life
- 5. Steps taken for the Conscrivation? Need? Project Tiger?
- 1 Types of forest ? Distribution ? [specific]
- 1. How Community Can play an important role in Conservation of F.A.w? [specific]
- 18. Explain the concept of Sacred groves? [with Example]
- 9. Define: Types of Species, Project tiger, Rescued, Protected, unclassed forests Chipko Movement, Beej Bachao Movement and J.F.M.



