

SNS COLLEGE OF TECHNOLOGY



Vazhiamyampalayam, Coimbatore-35

(An Autonomous institution)

Accredited by NBA-AICTE and Re-Accredited by NAAC-UGC with A+ Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF PHYSICS

COURSE NAME: 19HST102- ENVIRONMENTAL SCIENCE

I YEAR / II SEMESTER

UNIT: 2. BIODIVERSITY

TOPIC: 5. INSITU CONSERVATION





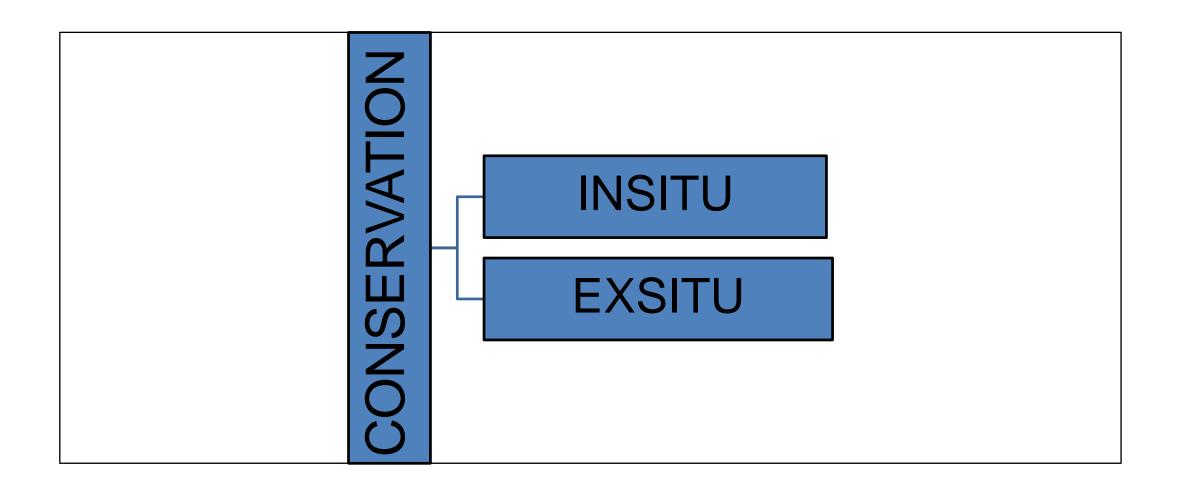
BRAINSTORMING WITH RECAP



CONSERVATION



• The management of biosphere so that will yield the greatest sustainable benefits to present generation while maintaining its potential to meet needs of future generation

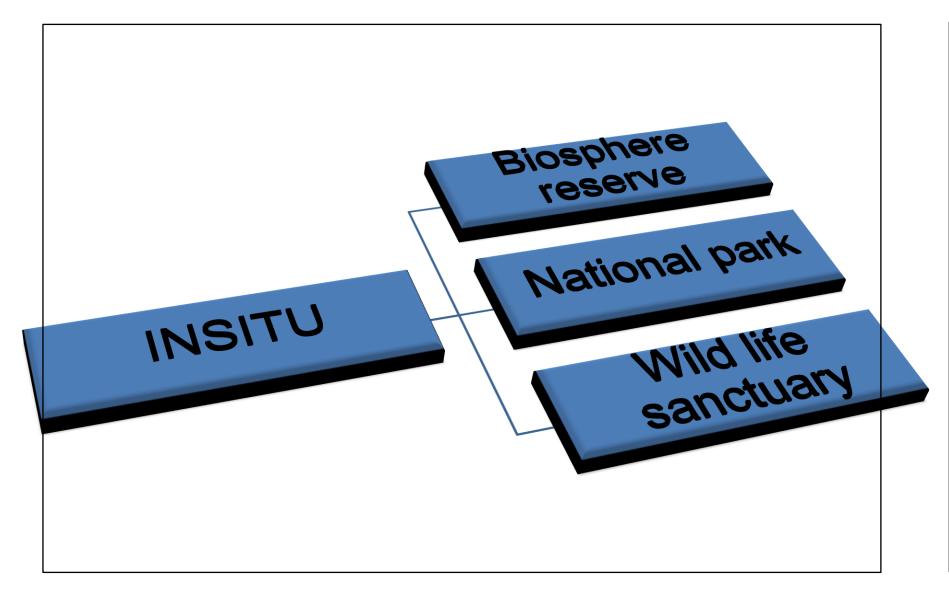


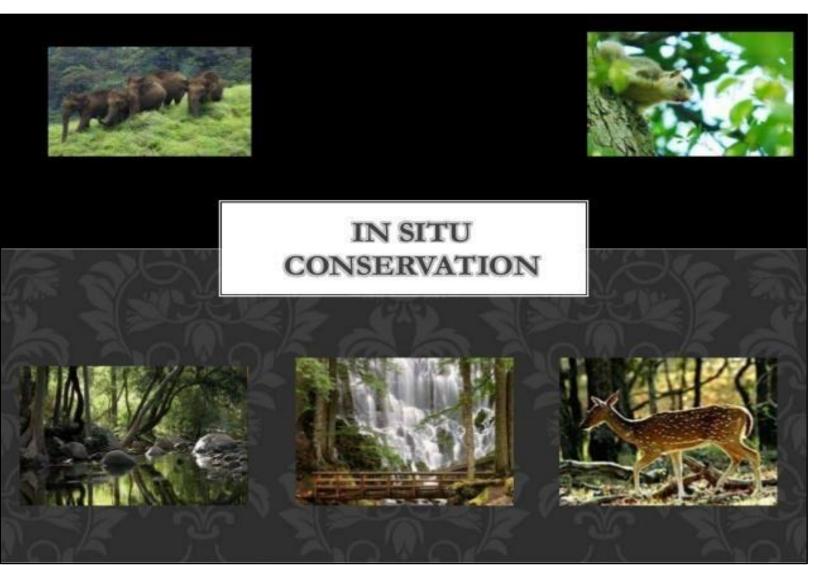


INSITU CONSEVARTION



- 1. It involves protection of fauna & flora within its natural habitat along with all other species
- 2. Protected area









1. BIOSPHERE RESERVES









- Covers large area > 5000sq.km.
- Protect species for long time
- It contains 1 or 2 national park
- Example: Nilgiri biosphere reserve-(Bandipur and Nagarhole national park.)
- World- 243 biosphere reserves
- India 7 (45,000 flora, 65,000 fauna)
- 1. Gulf of Mannar (TN) 2. Nilgiri (TN,KL and KA)
- 3. Nanda devi(UP) 4. Nokrek(Meghalaya) 5. Manas(As)
- 6. Sundarbans (WB) 7. Great Nicobar & Similipal(Odisa)



1. BIOSPHERE RESERVES



Role

- Long time survival for evolving ecosystem
- Protect endangered species
- Site for recreation
- Useful for education & research purpose

Restriction

- No tourism
- No explosive activities
- No human interference



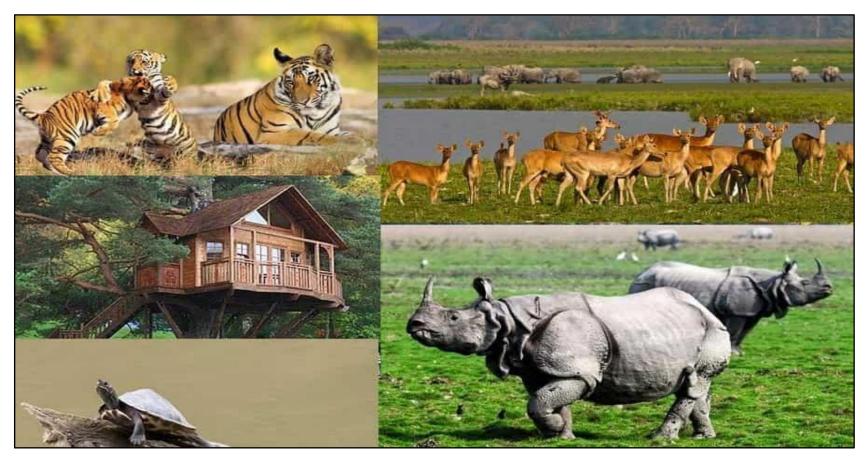


2. NATIONAL PARKS



- Protected area to conserve flora and fauna together in natural habitat.
- Covers 500 sq.km
- India-83 national parks

• TN- Guindy, Periyar, Indiragandhi, Marine national park, etc.,







2. NATIONAL PARKS





Role

- Tourism without affecting env.
- Protect and propagate the wild life.

Restriction

- Grazing of domestic animals
- Private rights and forest activities



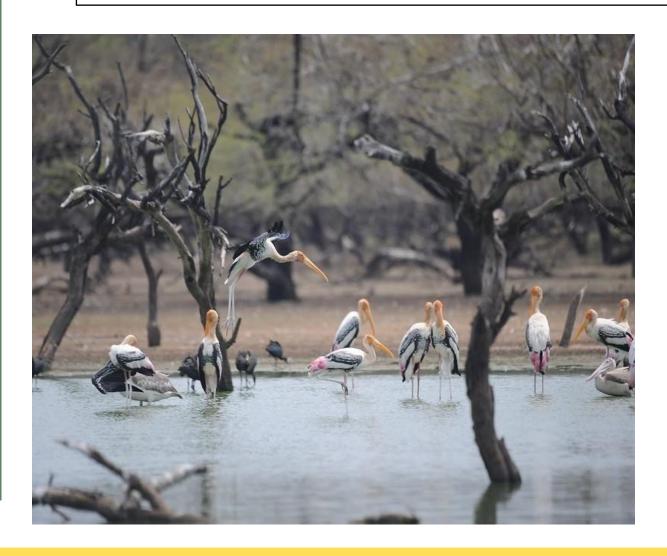




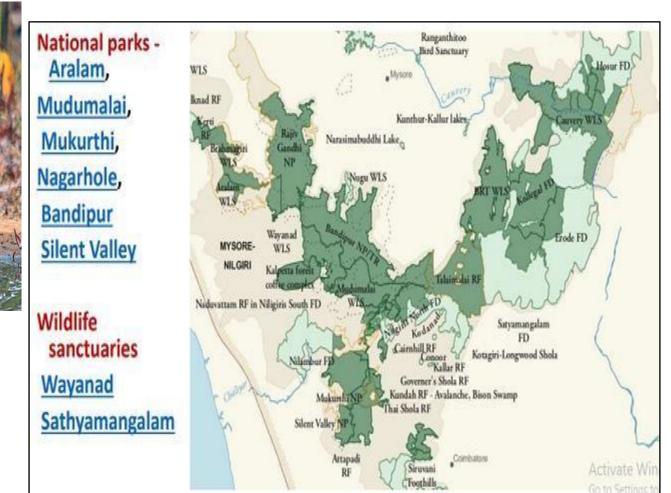
3. WILD LIFE SANCTUARY



- Reserved for the conservation of animals only
- Covers 100 sq. km.
- India-497
- TamilNadu-10
- Example: Mudhumalai, Vedanthangal,











3. WILD LIFE SANCTUARY



Role

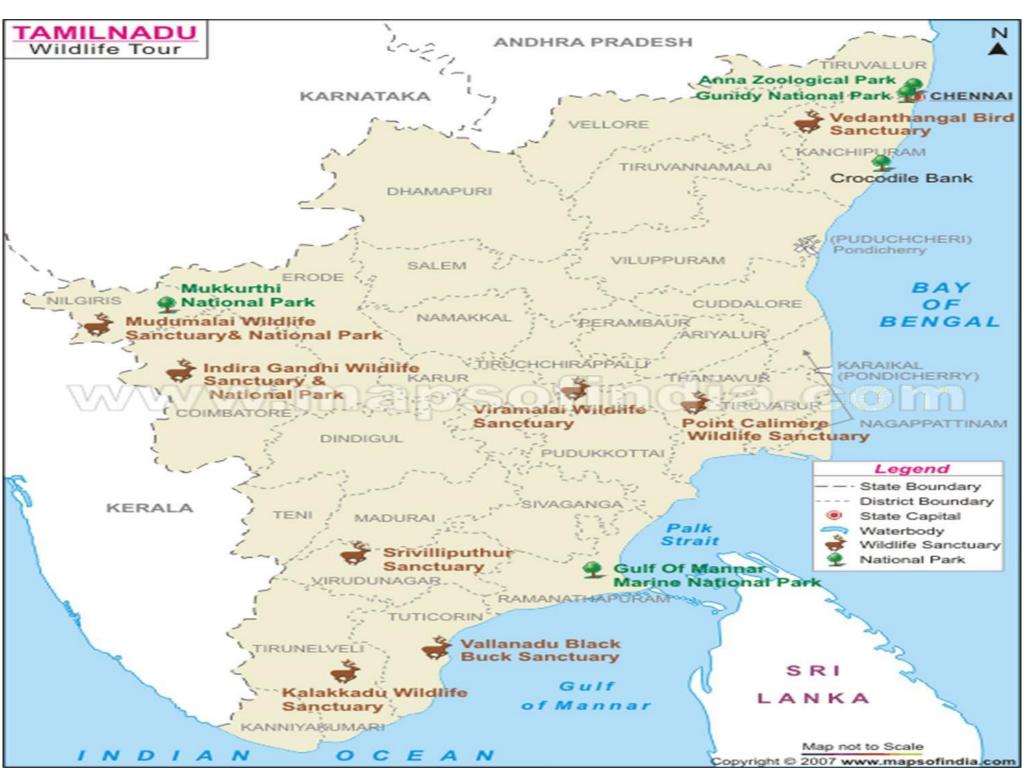
Permitting timber harvesting, forest product,
private rights and forestry operations

Restrictions

- Killing
- Hunting
- shooting and capturing of wildlife.











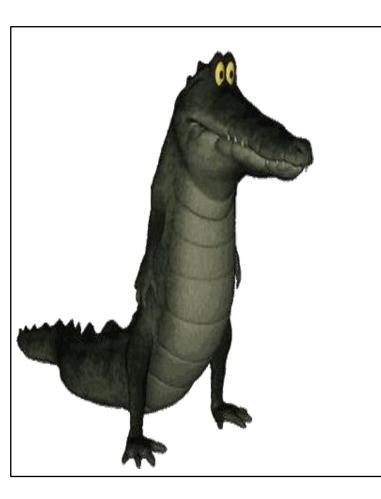




GENE SANCTUARY & OTHERS



- Plants are preserved, like lemon & Pitcher plant gene sanctuary
- some animals are protected in special projects for Gir lion, crocodile breeding, elephant etc









Advantages

- Cheap and convenient
- Species not only survived also multiplies
- Species gets adjusted to natural disaster
- Long term conservation
- Larger area provides conservation and evolution.

Limitations

- A large surface area required
- Habitat maintenance not proper
- shortage of staff



ASSESSMENT



1.	Differentiate between national parks & wild life sanctuary





SUMMARY



REFERENCES



- 1. Dr. A.Ravikrishnan, Environmental science & Engineering" Srikrishna hitech Pub. Co. Ltd, 2013.
- 2. G.Tayer Miller: Environmental Science", Cenage Learning India Pvt Ltd, 2011.
- 3. Benny joseph, "Environmental science & engineering" Tata McGraw-Hill.Pub.Co.Ltd. New Delhi.2009.

