



SNS COLLEGE OF TECHNOLOGY

Vazhiampalayam, 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 : 23CHT103 ENVIRONMENTAL SCIENCE
AND SUSTAINABILITY**

I YEAR / I SEMESTER

UNIT : 1. ECO SYSTEM

TOPIC : 1. INTRODUCTION TO ECO SYSTEM



BRAINSTORMING WITH RECAP

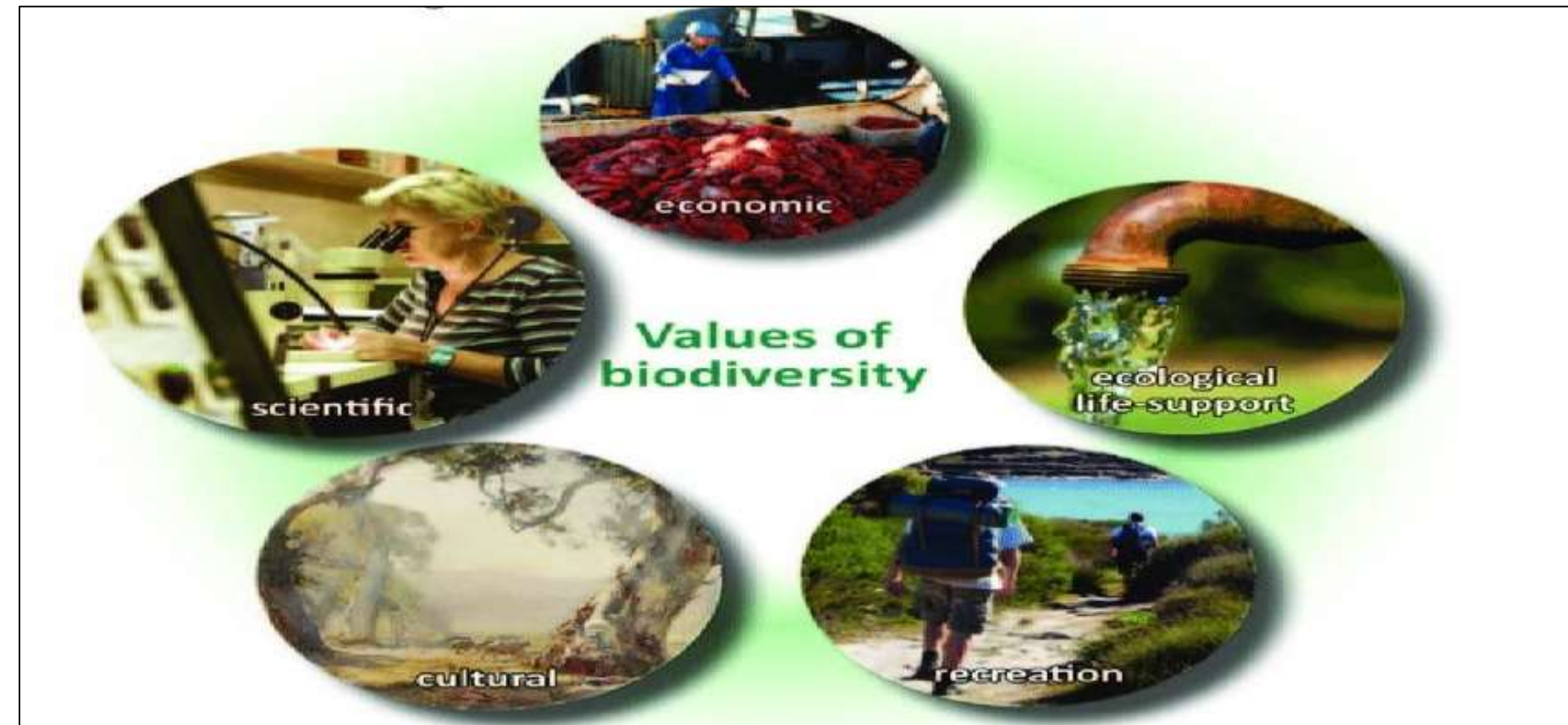


VALUES OF BIODIVERSITY



- COMSUMPTIVE USE VALUES
- PRODUCTIVE USE VALUES

- **Consumptive use value**
- **Productive use value**
- **Social values**
- **Ethical and moral values**
- **Aesthetic value**
- **Option value**
- **Ecosystem Service Value (intangible)**





1. COMSUMPTIVE USE VALUES



- Direct use values
- Biodiversity products are harvested & consumed directly
- **Example: Food, Drugs, Fuels**





2. PRODUCTIVE USE VALUES



- Commercial value(indirect values)
- Products are marketed and sold
- These are derived from animals & plants

Ex: Silk from silk worm, wool from sheep etc





2.1. SOCIAL VALUES

- These values associated with social life, religion & spiritual aspects of the people
- **Example:** holy plants , holy animals etc





2.2. ETHICAL VALUE/ EXISTENCE



“ALL LIFE MUST BE PRESERVED”

Having great value on religious and cultural basis & values are attached to each species **Example: Ganga, holy plants, Kangaroo, Zebra, Giraffe**

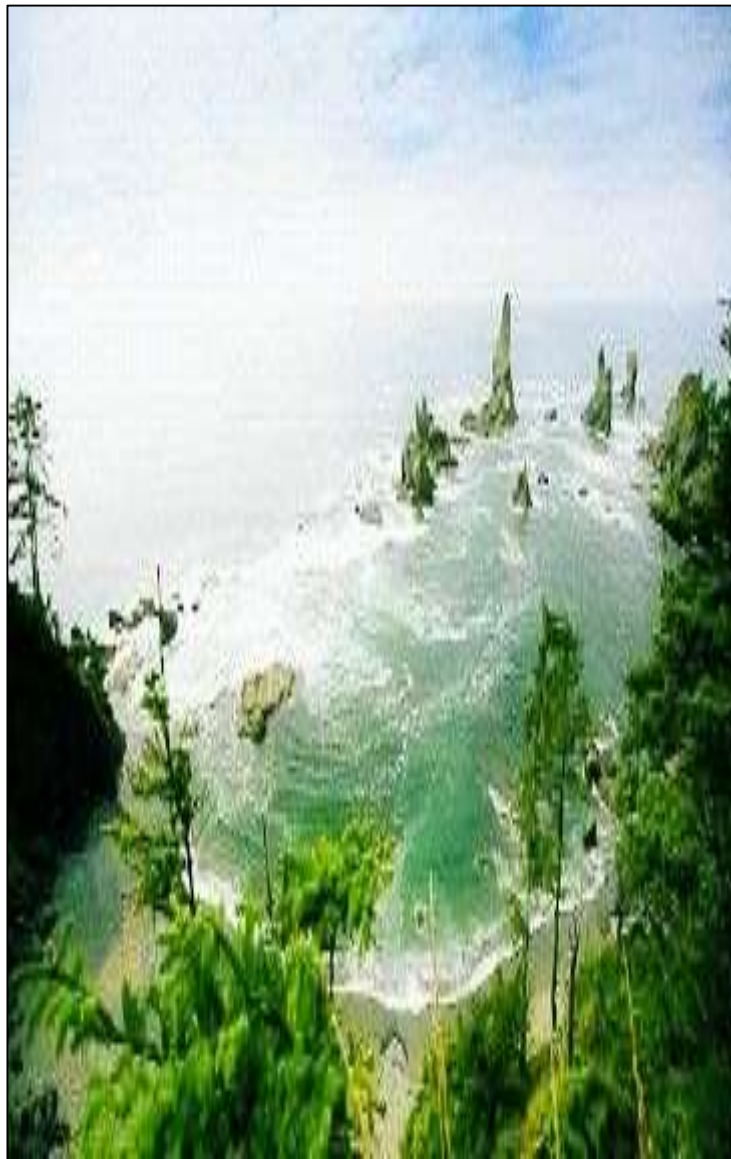




2.3. AESTHETIC VALUE BIODIVERSITY



- Beautiful nature of plants & animals insists us to protect biodiversity
- **Example:** ecotourism, pleasant music of birds, colourful butterflies, flowers etc





Activity





2.4. OPTION VALUES



- The potential of Bd is presently unknown and need to be known & may be proved to be valuable after someday





ASSESSMENT



1. Draw the flow chart for values of biodiversity



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.