



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 CHEMISTRY

COURSE NAME : 19HST102- ENVIRONMENTAL SCIENCE

I YEAR / I SEMESTER

UNIT : 1. ECO SYSTEM

TOPIC : 5. STRUCTURE & FUNCTION OF FOREST ECO SYSTEM



BRAINSTORMING WITH RECAP



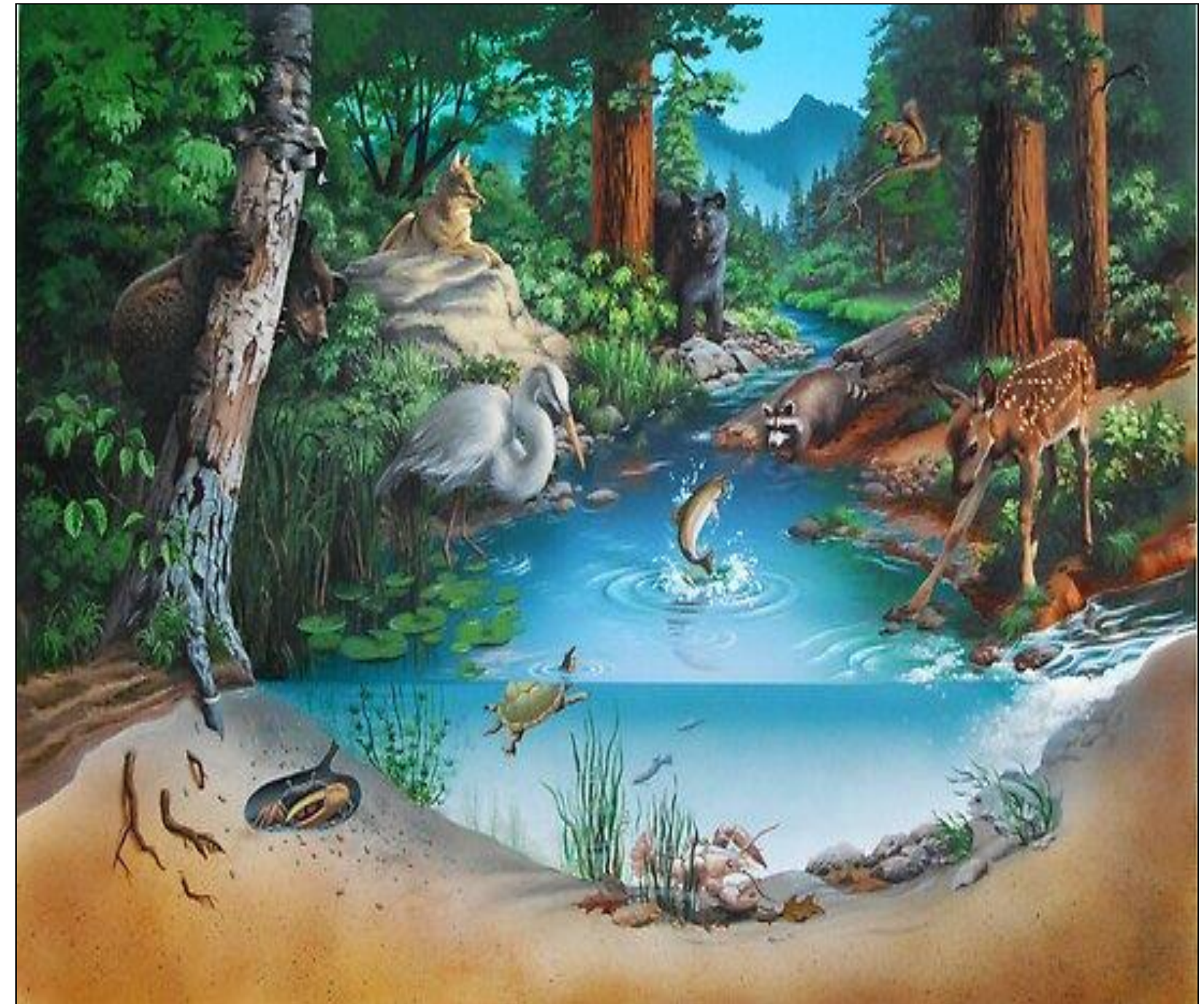


INTRO TO FOREST ECOSYSTEM



- Tall & dense trees grow
- Occupies 40% world's land
- 19% in India

- **Types**
- Tropical rain forest
- Tropical deciduous forest
- Tropical scrub forest
- Temperate rain forest
- Temperate deciduous forest





1. TROPICAL RAIN FOREST & 2. TROPICAL DECIDUOUS FOREST





3. TROPICAL SHRUB FOREST & 4. TEMPERATE RAIN FOREST





5. TEMPERATE DECIDUOUS FOREST

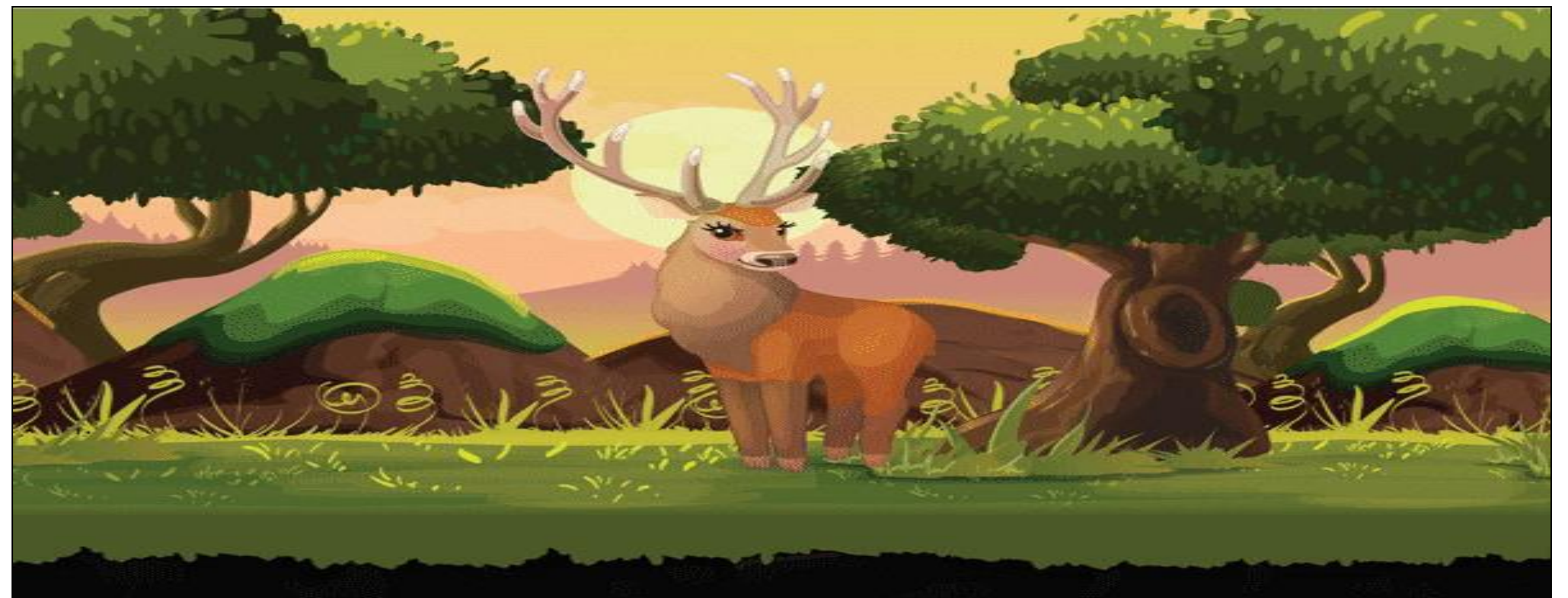




CHARACTERISTICS OF FOREST ECOSYSTEM

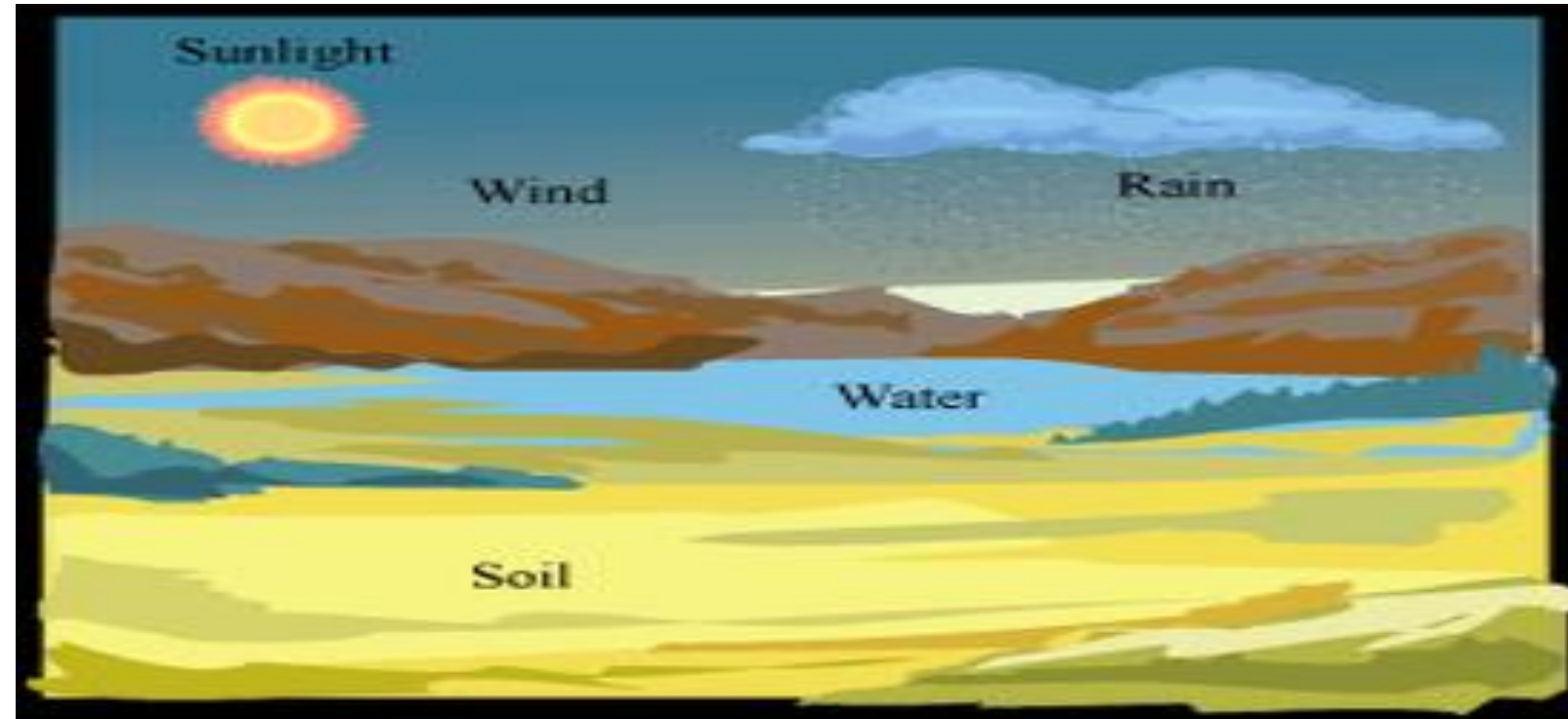


- Warm temperature, adequate rainfall
- Maintain climate and rainfall
- Protect biodiversity
- Soil enrichment
- Fast conversion of organic matter
- Maintain nutrient cycle
- Maintain ecosystem





STRUCTURE & FUNCTION



1. Abiotic components:

Physical components found in soil & atmosphere

Example: Climatic factors & minerals

2. Biotic components:

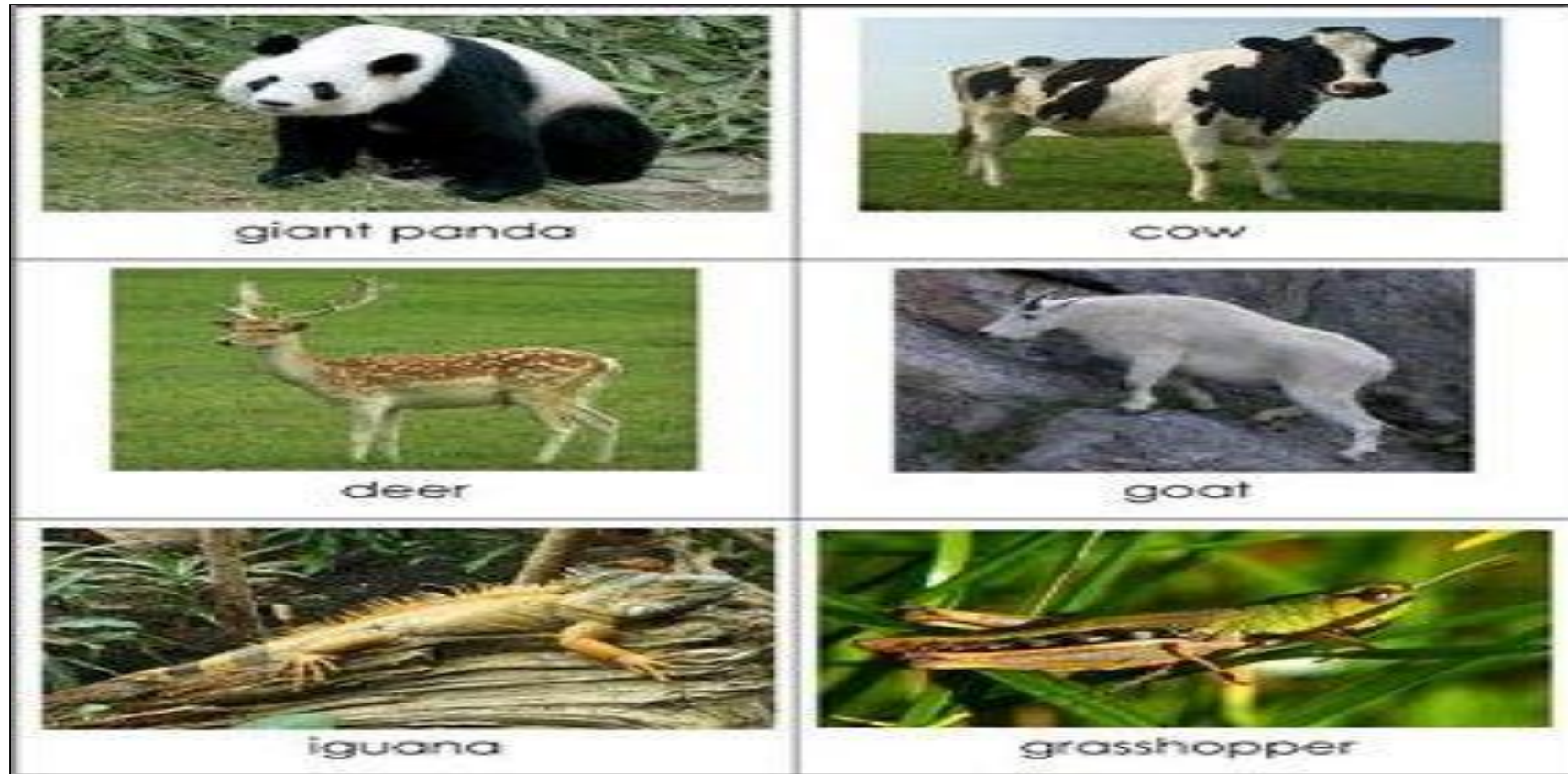
1. **Producers:** Photosynthesis process

Example: Trees, shrubs, vegetation





STRUCTURE & FUNCTION



2. Consumers

a. **Primary consumers(herbivore):** depends Plant (eaters)

Example: ants,flies insect,deer,mice

b. **secondary consumers (primary carnivore):**

depends herbivores

Example: birds. Snake, fox

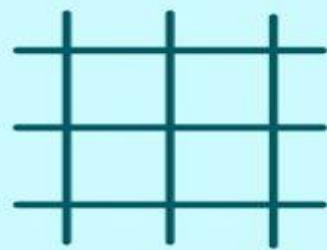




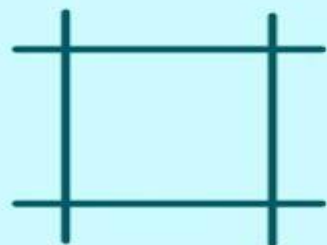
Activity



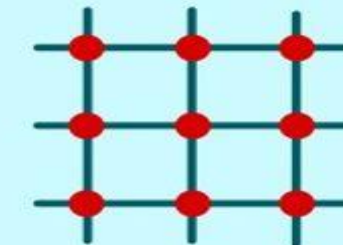
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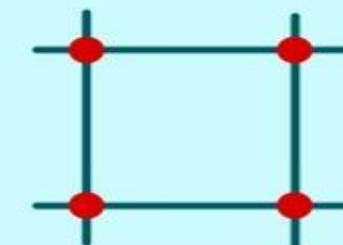
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4. The numbers indicate
the number of crossed lines
in each shape.

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STRUCTURE & FUNCTION



c. Tertiary consumers (primary carnivore): depends primary carnivore
Example: lion tiger

4. Decomposers: decompose dead plant & animals
Example: Bacteria & fungi

The 6 Kingdoms

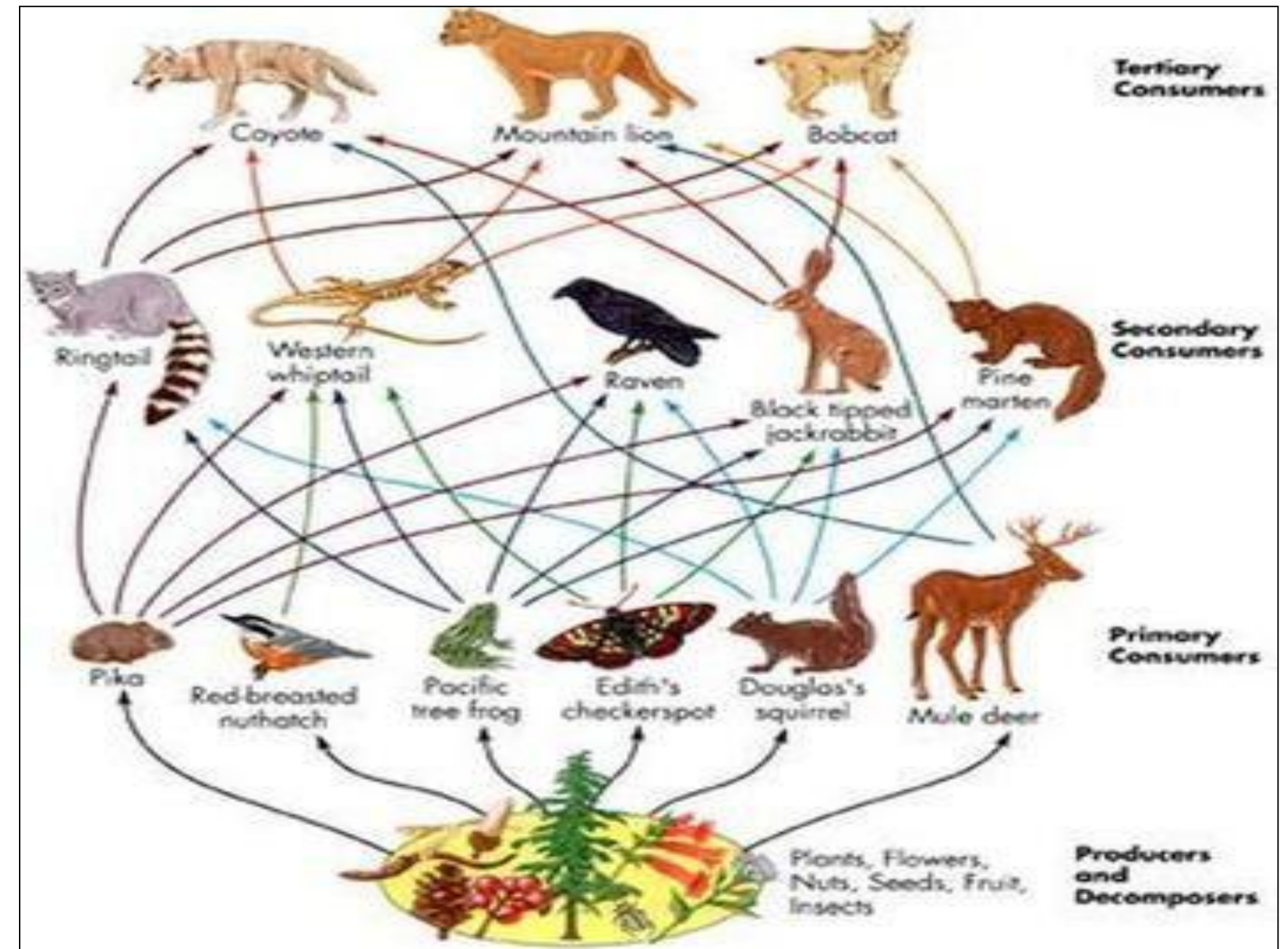
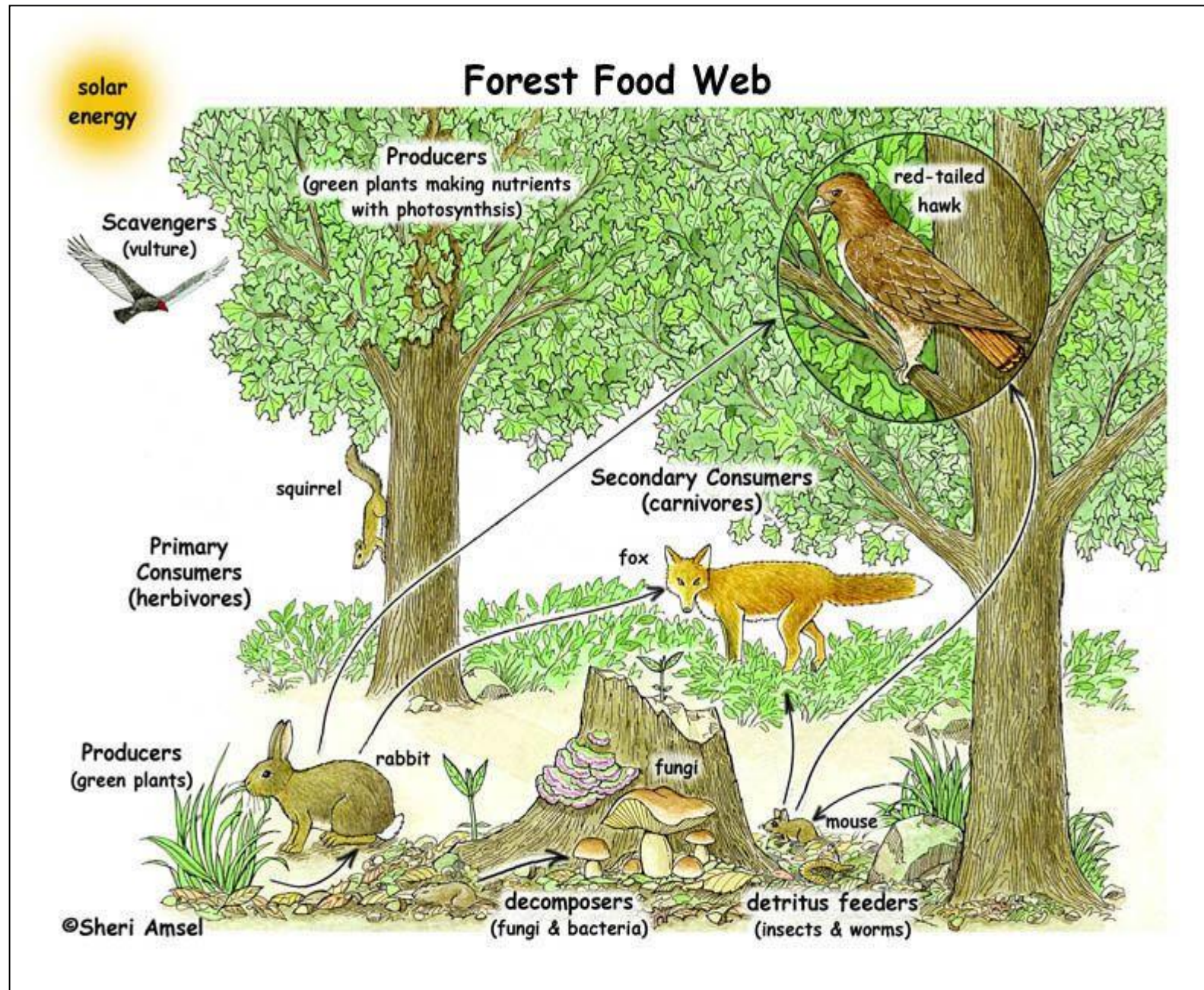
Archaeobacteria Prokaryote	Eubacteria Prokaryote	Protista Eukaryote
Fungi Eukaryote	Plantae Eukaryote	Animalia Eukaryote

#AmoebaGIFs

@AmoebaSisters



FOREST FOOD CHAIN





ASSESSMENT



1. Draw the flow chart for forest ecosystem



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.