

## UNIT-I

### Long Questions

1. What is Ecosystem. Describe the structure & functions of ecosystem.
2. Define Animal Association with examples.\*
3. Explain the types of Ecosystem\* (Aquatic & Terrestrial)
4. What is Food chain and explain the diff types of food chains. Add a note on food web.
5. Nitrogen Cycle, Carbon Cycle
6. Energy flow in Ecosystem

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1. Ecosystem
2. Phosphorous Cycle
3. Water cycle
4. Food web
5. Parasitism
6. Predation
7. Ecological Pyramids
8. Productivity
9. NPP & GPP

## UNIT-II

### Long

1. Define Population. Explain the diff characteristic features of population dynamics.\*
2. Define Community and explain the dynamic of community structure.
3. Explain a diff modes of ecological adaptations.\*
4. What is pollution. Write the sources effects & control measure of noise, air, soil pollut.\*

### Short

1. Species Concept
2. Growth Curves
3. Ecological Succession
4. Water pollution
5. National parks
6. Sanctuaries

## 7. Endangered Species

### UNIT-III

Long

1. Explain about the fauna of diff zoo geographical regions.

2. Discontinuous distribution.

3. Continental Drift

4. Biodiversity & Hotspots of biodiversity in India.

Short

1. Wallace Line 2. Ethiopian region 3. Oriental region

4. Australian region 5. Biodiversity

### UNIT-IV

Long

1. Lamarckism \*

3. Modern Synthetic Theory

2. Darwin's Theory <sup>(Industrial Revolution)</sup> \*

4. Isolation & its Mechanism.

5. Evidence of Evolution 6. Causes & Role of Extinction

7. Speciation and its methods \*

Short

1. Use and Disuse Organs (Lamarck's Theory)

2. Genetic Drift \*

3. Allopatric and Parapatric speciation.

4. Hardy-Weinberg law 5. Founder's Effect 6. Bottleneck Effect

7. Natural Selection \*

8. Gene flow