

# WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION

## SUBJECT : ENVIRONMENTAL STUDIES (ENVS)

**CLASS – XII**

**SEMESTER – III**

**FULL MARKS: 40**

Chapter	Subtopics	Marks	Hours
Principles of ecology	<ol style="list-style-type: none"> <li>1. Basic concepts and definitions: ecology, landscape, habitat, ecozones, biosphere, ecosystems, ecosystem stability</li> <li>2. Autecology; synecology; major terrestrial biomes.</li> <li>3. Types of ecosystems: forest, grassland, lentic, lotic, estuarine, marine, desert, wetlands</li> <li>4. Ecosystem structure and function; abiotic and biotic components of ecosystem.</li> <li>5. Ecosystem connections: food chain, food web; detritus pathway of energy flow, The 10 Percent Energy Law by Lindeman, characteristics and decomposition processes; ecological efficiencies; ecological pyramids: pyramids of number, biomass, and energy.</li> <li>6. Exercise</li> </ol>	20	40
Biodiversity	<ol style="list-style-type: none"> <li>1. Concept of Biodiversity</li> <li>2. Value of Biodiversity</li> <li>3. Types of Biodiversity</li> <li>4. Loss of Biodiversity</li> <li>5. Balance in Nature</li> <li>6. India as Mega diversity Nation</li> <li>7. Our Common Plants</li> <li>8. Our Common Animals</li> <li>9. Economic Potential</li> <li>10. Wildlife in Trade</li> <li>11. Strategies of Conservation</li> <li>12. Exercise</li> </ol>	20	60