

Time: 3 h

Maximum marks: 40

A. Multiple choice questions (Attempt all the questions)

1*10=10

1. Which one of these has greatest biodiversity on Earth?

- 1) Neil Delta, Egypt 2) African Grasslands 3) Amazonian Rain Forest 4) Western Ghat India.

2.occurs when the death of the last individual in a species occurs.

- 1) Adaptation 2) Evolution 3) Speciation 4) Extinction

3. is defined as an ecological state of s species being unique to a specific geographic location.

- 1) Vulnerable species 2) Endemism 3) Speciation 4) diversity

4. is the forest cover to be maintained as per the National Forest Policy (1988).

- i) 67% for hills & 33% for plants 2) 25% for hills & 15 % for plants
3) 15% for hills & 25% plants 4) None of the above

5.is an example of Ex situ conservation

- 1) Sacred groves 2) Wild Life Sanctuary 3) Seed bank 4) National Park

6. Which one of these is the most effective means of conserving biodiversity?

- 1) Preserve habitat 2) translocation of plants & animals
3) National parks 4) Seed banks

7. Coniferous Forest are-----

- 1) Broad leaved forest with Jamun, ficus, Fern, Oak as flora and Tiger, elephant as fauna.
2) Narrow leaved with Pinus, Quercus, barberis as flora and Himalayan goat, black bear, and sheep as fauna
3) Minimum Flora and Fauna 4) None of the above

8. In Food Chain Energy is transferred from one trophic level to another, which is approximately

- 1) 20 % 2) 25% 3) 10% 4) 15 %

9. Nandan Kanan Zoo is popular for its.....

- 1) Nilgiri Tahr 2) Whale 3) White Tiger 4) Hippo

10. If The acid chemicals in the air are blown into areas where the weather is wet, the acids can fall to the ground in the form of

- 1) Send 2) Rain, snow, Fog 3) Air 4) Soil

End Semester Examination-Dec 2022
B.Tech. ECE/CHE/CSE(AI)-IV Sem II Year (2K21)

Environment Science (EVS S101)

Section B (Conceptual Knowledge- attempt any 4 questions). 4x4 Page 2 of 2

1. Draw Food web using interconnection of food chain by arranging all the organism in order of Food Chain

Insects, Aquatic Plants, Small Birds, Grass, Grasshopper, snake, Peacock

Plant flower, Phytoplankton, lizard, Grass, Dragonfly Larva Tadpole, Bees, Big Birds, Eagle

2. Show distribution of population & water resources on Map. Locate all the spots on World Map. Name of Countries are given here

1. North & Central America
 2. South America
 3. Europe
 4. Africa
 5. Asia
 6. Australia & Oceania
3. Define Ecosystem Biodiversity & Explain role of speciation in Biodiversity.
4. Explain method of Rainwater harvesting system.
5. Discuss about wind Energy, Geothermal Energy & Tidal Energy Conversion Methods.
6. Mention water distribution on China.
7. What is Ecosystem & Biome. Discuss about the Design, Recreate & Restore in for any Ecosystem.
8. Discuss about major environmental movements.

Section C (based on Procedural Knowledge- Attempt any 2 questions).

Attempt Any two question

7 x2

1. Discuss about factors affecting Global Food Production. Mention annual loss & gain according to FAO (Projection for 2025)
2. What is Resettlement & Rehabilitation issues of Indigenous/Tribal population. Discuss about problems & concerns.
3. Discuss about management of resources (a) renewable resource of energy (b) nonrenewable resource of Energy.
4. Write down the key concept & goal of Sustainable development. (a) Write down the method of sustainable development? (b) Discuss about problems, Challenges Role of Engineering solutions for sustainable development.
5. (a) What is GPS? (b) Explain How GPS works? (c) Describe the application of GPS.
6. (a) What is GIS? (b) How GIS works with other navigation system? (c) discuss about various application of GIS.
7. (a) What is IUCN? (b) How IUCN categorized different species to signify their conservation status?
8. (a) What are pollution reducing devices? (b) Discuss about role of computers in their designing using a suitable example. (c) What are new technologies used for metal removal from waste?
9. (a) What is Solar energy? Discuss about Photovoltaic device & its application

10. Discuss about Special powers of the President of India/Governors of States in respect to protect Scheduled Tribes' population, Water, Forest & Land resources.