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**21BOT1C4L**

Sl. No.

**M.Sc. I Semester Degree Examination, April/May - 2024**

**BOTANY**

**Ecology and Ecoinformatics**

**(NEP)**

Time : 3 Hours

Maximum Marks : 70

**Note :** Answer **any five** of the following questions. Question **No. 1** is **Compulsory**.

1. Define ecosystem structure, its functions and primary production of ecosystem. **14**
2. (a) Write a note on primary production of ecosystem. **8**  
(b) Explain energy dynamics. **6**
3. (a) Write a note on models and mechanism of ecological succession. **8**  
(b) Explain concept of ecological niche. **6**
4. (a) Explain radioactive pollution. **5**  
(b) Write a short note on Thermal pollution. **5**  
(c) Green house gases and their sources. **4**
5. (a) Indian remote sensing satellites and sensors. **5**  
(b) Concept on sustainability indicators. **4**  
(c) Raster and vector data structure. **5**
6. (a) Concept of community. **5**  
(b) Explain biological action spectra. **4**  
(c) Explain mineral cycle in terrestrial ecosystem. **5**
7. (a) Short note on soil erosion and conservation. **4**  
(b) Effects of increased CO<sub>2</sub> on plants. **4**  
(c) Concept of climax. **6**
8. (a) Explain the mineral cycles in terrestrial and aquatic ecosystems. **6**  
(b) Describe the components, development, platforms and types of Indian remote sensing satellites and sensors. **8**

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