

**POST GRADUATE DIPLOMA IN
SUSTAINABILITY SCIENCE (PGDSS)**

Term-End Examination

MSD-011 : SUSTAINABLE SCIENCE

Time : 3 Hours]

[Maximum Marks : 100

Note: Attempt any ten questions. Each question carries 10 marks. Answer the following in about 500 words each.

1. Define watershed. What are the objectives of watershed management? 10
2. What do you understand by sustainability Hierarchy? What are the levels of sustainability Hierarchy as proposed by Marshall & Toffel. 10
3. Explain the physical and ecological indicators of sustainability. 10
4. Technology is like a sword with two edges. Describe the limitations of technology. 10
5. Why is there a need for paradigm shift from green revolution to evergreen revolution? 10



6. What is the role of scale in studying landscape ecology? 10
7. Describe the challenges to sustainable development. 10
8. Critically describe the sustainability livelihood security index by giving appropriate examples. 10
9. Distinguish between Integrated and Adaptive Approach of Natural Resource Management. 10
10. What is meant by landscape diversity? What factors are responsible for changes in landscape diversity? 10
11. The world is facing enormous challenges such as global climate change and loss of natural resources. In your opinion, how can sustainability science, find a viable solution to these issues. 10
12. What are the basic requisites of public participation? 10
13. Describe some of the interpersonal tools for the effective utilisation of communication within a participatory approach. 10
14. "Poverty is the worst form of pollution". Explain how the poverty encourages over exploitation of natural resources and pollution. 10