

Indian Institute of Technology
Mid-Autumn Semester Examination 2022-2023

Subject Name: Economics of Sustainable Development
Time: 2 hours
3rd Year Int. M.Sc. in Economics

Subject No: HS40204
Full Marks: 30
No. Of Students: 72

Answer all the Questions
(No queries will be entertained during examination)

1. (a) Using diagram show the relationships between the economy and the environment and their interdependence. (5)
(b) Discuss the four environmental services that the environment contributes to economic system and the possibilities of substitutions for these environmental services. (5)
2. Provide a summary of the role of technology in environmental impact in terms of energy use and explain the relationships between affluence and technology (the EKC) (5)
3. What are the environmental and social limits to growth? (5)
4. Distinguish between weak and strong sustainability. What are the sustainability rules and the different methods to measure sustainability? (2+3)
5. Write notes on: (2.5+2.5)
 - (a) Efficiency, Optimality and Sustainability
 - (b) Ecological Footprint