

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

Term-End Examination

December, 2022

**MSD-017: CHALLENGES TO SUSTAINABLE
DEVELOPMENT**

Time : 3 hours

Maximum Marks : 100

Note : Attempt any **five** of the following questions. All questions carry equal marks.

1. (a) What is climate change ? Explain the impact of climate change on water resources. 10
- (b) Define the term sanitation. Explain the importance of sanitation in sustainable development. 10
2. Write short notes on any **four** of the following : 4×5=20
 - (a) Tuberculosis
 - (b) Occupational health hazards
 - (c) Desertification
 - (d) Water pollution
 - (e) Urban sprawl

3. (a) Define the terms Mitigation and Adaptation. Differentiate between Mitigation and Adaptation by giving three differences each. $4+6=10$
- (b) Describe the various sources of air pollution and its effects on health. 10
4. (a) Briefly explain the various hazardous waste pollutants. 10
- (b) What is energy crisis ? What are the effects of an emerging energy crisis ? 10
5. (a) Define soil erosion. Explain the causes and effects of soil erosion. 10
- (b) What is biopiracy ? Explain any five examples of biopiracy of Indian traditional knowledge. 10
6. Write short notes on any **four** of the following : $4 \times 5 = 20$
- (a) Hydrogen fuel and Algal fuel
- (b) Carbon Footprint
- (c) Copenhagen Summit
- (d) Micronutrients
- (e) Landslides

7. (a) Describe the various natural hazards and their effects on mankind. 10
- (b) Explain tangible and intangible impacts of urbanisation. 5+5=10
8. (a) Describe the impact of climate change on various aspects of human life. 10
- (b) Write a short essay on climate change and food security. 10
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