

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

Term-End Examination

December, 2015

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

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt *any five* of the following questions.
(ii) All question carries *equal* marks.

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1. (a) Write short notes on **any five** of the following in about **100** words : **5x2=10**
 - (i) Kyoto protocol
 - (ii) National Action Plan on climate change
 - (iii) Climate change impact on water resources
 - (iv) Factors that enhance forest vulnerability to climate change
 - (v) Climate change : Vulnerability of people and places
 - (vi) Mitigation measures to climate change in India
 - (b) Discuss major strategies for reviving and sustaining natural resources. **10**
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2. (a) Define vulnerability in the context of climate change. Discuss ecological and physiological vulnerability of agriculture to climate change. **5+5=10**

- (b) What is mitigation and adaptation of climate change ? Discuss interrelationship between adaptation and mitigation. $5+5=10$
3. (a) Explain 'ecological footprints'. Describe various types of footprints on the basis of source and impact. $5+5=10$
- (b) Explain resource utilization and exploitation with the help of suitable diagram. Describe relatively new concepts for alternative energy. $5+5=10$
4. (a) Discuss the impacts of tangible and intangible impacts of Urbanization. 10
- (b) What is Waste Management ? Discuss the various categories of solid waste and their management. $3+7=10$
5. Write short notes on **any four** of the following in about 300 words : $5 \times 4 = 20$
- (a) Importance of environment health to sustainable development
- (b) Types and coverage of sanitation
- (c) Communicable diseases
- (d) Types and impact of health hazards
- (e) Nutritional requirements in different life stages of a person
6. (a) Describe various dimensions of health. Discuss different management options to control various health problems. $5+5=10$
- (b) What is epidemiology ? Discuss various health care services provided by the Indian Government. $5+5=10$

7. Discuss direct and indirect pressures of land degradation. Describe various policy recommendations for the management of the land scientifically and sustainably. **10+10=20**
8. Answer **any four** of the following in about **300** words : **5x4=20**
- (a) Process of desertification
 - (b) Phases of disaster management
 - (c) Biological Warfare
 - (d) Traditional knowledge digital library
 - (e) Man made disasters
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