

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

**Term-End Examination**

00240

**December, 2014**

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

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** Answer *all* questions as per the instructions given in each question.

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1. Attempt any *ten* questions. Answer the following questions in about 100 words each. Each question carries 2 marks.  $10 \times 2 = 20$
- (i) Describe aerosols.
  - (ii) Mention some sources of carbon dioxide emission into the atmosphere.
  - (iii) Define climate change. Name two gases that contribute to climate change.
  - (iv) What is Kyoto Protocol ?
  - (v) What do you mean by ecological footprint ?
  - (vi) What is a biofuel ? Give two examples.
  - (vii) What are CFCs and their sources ?
  - (viii) Describe air pollution.
  - (ix) Mention the different types of solid wastes.

- (x) What do you understand by the term bio-medical waste ?
- (xi) Define health. What are the good health parameters set by WHO, 1948 ?
- (xii) What is dengue and what are its symptoms ?
- (xiii) Define vector-borne diseases with an example.
- (xiv) What is soil erosion ? List the factors causing soil erosion.
- (xv) Define disaster and the types of disasters. Give an example.

2. Attempt any **eight** questions. Answer the following questions in about 300 words each.

Each question carries 5 marks.

$8 \times 5 = 40$

- (i) Explain any two major impacts of climate change on health.
- (ii) Explain the major factors causing desertification.
- (iii) Explain the various factors that contribute to an energy crisis.
- (iv) Describe the major classes of nutrients required by the human body.
- (v) Differentiate between hazard and disaster with suitable examples.
- (vi) Briefly explain the benefits and problems of urbanization.

- (vii) Explain the linkages between development, environment and health.
- (viii) Briefly discuss the different mitigatory measures for dealing with an energy crisis.
- (ix) Write a short note on Convention on Biodiversity.
- (x) Write a note on solid wastes generated in cities.
- (xi) Write a short note on alternate sources of energy.
- (xii) What are the possible strategies to alleviate urban problems ?

3. Attempt any **four** questions. Answer the following questions in about 500 words each. Each question carries 10 marks.  $4 \times 10 = 40$

- (i) Describe the various sources of water pollution and its effects.
  - (ii) Write an account on physical and chemical pollutants induced diseases.
  - (iii) Differentiate between communicable and non-communicable diseases with suitable examples.
  - (iv) What are man-made disasters ? Write a case-study from India.
  - (v) How do human activities contribute to global warming and climate change ?
  - (vi) Describe the management options to control health related diseases.
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