

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

Term-End Examination

December, 2016

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

Time : 3 hours

Maximum Marks : 100

*Note : Answer the following questions as per instructions given
in each section.*

1. Answer any ten of the following briefly : $10 \times 2 = 20$
- (a) Define communicable diseases giving suitable examples.
 - (b) What is indoor air pollution ?
 - (c) What are the driving forces of urbanization ?
 - (d) Define biological warfare.
 - (e) What are water soluble vitamins ?
 - (f) What is the difference between climate change and global change ?
 - (g) Define mitigation in the context of climate change.
 - (h) What are primary and secondary effects of earthquake ?
 - (i) What do you mean by Alien Invasive Species ?

- (j) List the causes of soil erosion.
- (k) Mention the ways by which harmful agents can enter human body.
- (l) What are biofuels ?

2. Answer any 8 of the following : 8x5=40

- (a) How urbanization leads to increase in the exploitation of natural resources ?
- (b) How industries contribute to groundwater contamination ?
- (c) How human health is affected by climate change ?
- (d) What is the importance of sanitation on sustainable development ?
- (e) How unsustainable agricultural practices lead to desertification ?
- (f) Write a note on Man-Made Disasters.
- (g) Why dryland conservation is essential for sustainability of land resources ?
- (h) Differentiate between endemic and pandemic.
- (i) What are the objectives of National Solar Mission ?
- (j) What do you understand by Sustainable Solid Waste Management ?
- (k) How photochemical smog formation takes place ? Explain.
- (l) What is ecological footprint ? How it is related to carrying capacity of Earth ?

3. Answer any 4 in detail :

4x10=40

- (a) What is energy crisis ? Suggest suitable measures for energy crisis management.
 - (b) Why are poor communities susceptible to the effects of climate change ? Give examples to support your answer.
 - (c) What are the environmental risks associated with poor sanitation ? What measures can be taken for disease prevention and control ?
 - (d) Why urbanization is considered as a problem ? Describe the tangible and intangible impact of urbanization.
 - (e) Write a note on the nutritional requirements of a person in different life stages.
 - (f) Explain various aspects of biothreats. How are they related to each other ?
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