

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

Term-End Examination

June, 2015

00059

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

Time : 3 hours

Maximum Marks : 100

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

1. Attempt any *ten* questions. Answer the following questions in about 100 words each. Each question carries 2 marks. *10×2=20*
- (i) Write a note on global change.
 - (ii) What do you understand by the term natural resources ?
 - (iii) What is desertification and how is it caused ?
 - (iv) What are natural disasters ?
 - (v) What are the primary and secondary effects of earthquake ?

- (vi) Describe bio-terrorism.
- (vii) What do you mean by Alien invasive species ?
- (viii) Write a note on AIDS.
- (ix) What do you understand by the term sanitation ?
- (x) Describe water pollution.
- (xi) What are proteins and why are they required by the human body ?
- (xii) What are vitamins and how are they classified ?
- (xiii) Describe carbon footprint.
- (xiv) What is the principle used in a biogas digester ?
- (xv) Write a note on sources of noise pollution.

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

Each question carries 5 marks.

8×5=40

- (i) Why is climate change a concern ?
- (ii) Write short notes on the following :
 - (a) Kyoto Protocol
 - (b) Copenhagen Summit

- (iii) What will be the impact of climate change on water resources ?
- (iv) Write two case studies of soil erosion in India.
- (v) Write a short note on cyclones.
- (vi) Differentiate between epidemic and pandemic.
- (vii) Briefly explain biological warfare with suitable examples.
- (viii) What is biopiracy ? Give an example where India has faced a threat of biopiracy.
- (ix) How are HDI of a country and poverty linked ?
- (x) Write a short note on hazardous waste pollution.
- (xi) What is carrying capacity and how does it overshoot the earth's bio-capacity ?
- (xii) What are the impacts of environmental degradation on human health ?

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

- (i) Discuss food safety as an important factor for sustainable development.

- (ii) Describe the following :
 - (a) States of nutritional health
 - (b) Life stages and nutrition requirements
 - (iii) Write notes on the following :
 - (a) Probable consequences and impacts of climate change
 - (b) Future climate change projections
 - (iv) What are the sources of ground water contamination ? How does it impact human health ?
 - (v) Write in detail a note on air pollution, sources of air pollution and its impacts on human health?
 - (vi) Explain the different phases of disaster management.
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