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MSD-017

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

Term-End Examination

June, 2022

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

Time : 3 Hours

Maximum Marks : 100

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

1. (a) Analyse the relationship between environment and human health for achieving sustainable development. 10
- (b) Define health. Describe any *four* major dimensions of health. 2+8
2. Answer any *four* of the following : 4×5=20
 - (a) Noise pollution
 - (b) Biopiracy
 - (c) Bioterrorism
 - (d) Kyoto protocol
 - (e) Alternate sources of energy

P. T. O.

3. (a) Describe the various sources of noise pollution and its effects on health. 10
- (b) Write a short essay on any *five* adaptations and mitigation measures to climate change impact in India. 10
4. (a) Describe the relationship between urbanization and increasing resource demand with suitable examples. 10
- (b) Explain the concept of carrying capacity. Elaborate the model proposed by Ehrlich $I = P \times A \times T$. 10
5. (a) Describe the impacts of climate change on forest and energy resources. 5+5
- (b) Explain the global phenomenon of climate change as a threat to sustainability. 10
6. (a) Explain the various factors resulting in energy crisis. 10
- (b) Explain the mitigatory measures for dealing with an energy crisis. 10
7. Answer any *four* of the following in **200** words each : 4×5=20
- (a) Groundwater pollution

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- (b) Problems of land degradation
 - (c) Volcanic eruptions
 - (d) Biofuels
 - (e) Epidemic
8. Write an essay on communicable and non-communicable diseases. 10+10