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MSD-016

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

Term-End Examination

June, 2020

**MSD-016 : STRATEGIES AND MODELS FOR
SUSTAINABILITY**

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any ten questions.

(ii) Each question carries 10 marks.

1. Define infrastructure. Classify and characterize the infrastructure in the context of sustainability.

10

2. Write short notes on any *four* of the following :

$2\frac{1}{2}$ each

(i) Sustainable infrastructure

P. T. O.

- (ii) Sanitation for sustainable health
 - (iii) SWOT analysis of food processing industry
 - (iv) Life cycle assessment of the resources
 - (v) Alternative waste treatment
3. What is Health ? Discuss the existing challenges and perspectives in the Indian health sector. 10
4. What is Waste ? Discuss various waste prevention techniques from the perspective of conserving resources for the future generation. 10
5. What is Geographical Information System (GIS) ? Discuss the applications of GIS for achieving sustainable development. 10
6. Discuss various components of natural resource management. Explain how crucial is the sustainability of indigenous communities for natural resource management. 5 + 5

7. Write short notes on any *two* of the following : 5 each
- (i) Village Knowledge Centre
 - (ii) Gender and Market Linkages
 - (iii) Shifting agriculture and sustainable development
 - (iv) Sustainable development model
8. Explain how to set up a biovillage to make sustainable use of the locally available natural resources. Discuss the role and desired qualities of the facilitator in setting up a biovillage. 10
9. Discuss the short-term gains and long-term ecological norms of green revolution. How is evergreen revolution different from green revolution ? 10
10. What is sustainable agriculture ? Describe the ecological foundations of sustainable agriculture. 10

11. What are the pillars of food security at individual level ? Discuss on-farm and non-farm livelihood opportunities for rural farmers in India. 10
12. Explain the basic unifying principles of inducing sustainable rural development in the Himalaya. Discuss the Rural Technology Demonstration and Training Centre as a community participation approach. 10