

00233

Ph.D. IN ENVIRONMENTAL SCIENCE

Term-End Examination

December, 2018

REVE-007 : SUSTAINABILITY SCIENCE

Time : 3 hours

Maximum Marks : 100

Note : *Attempt any 10 questions. Each question carries equal marks. Answer in about 500 words.*

1. What are ecosystem goods and services ? Discuss the linkages between ecosystem health and human well being. **4+6**
2. Discuss the conceptual framework of biodiversity. **10**
3. What is Natural Capital Accounting ? Why is it important ? **5+5**
4. What are the different ways in which stakeholders can express environmental values ? **10**
5. Define sustainable consumption and sustainable products. What are its key principles ? **6+4**
6. Define the term indicator(s). What are the different types of sustainability indicators ? **2+8**

7. Explain the following terms. 5+5
(a) Human Appropriation Net Primary Productivity (HANPP).
(b) Maximum Sustainable Yield (MSY).
8. Discuss the 'Material Balance Principle'. 10
9. Explain the Green House Gas inventory system. 10
10. Define the following terms : 2½x4=10
(a) Sustainable Development
(b) Carrying Capacity
(c) Carbon Credit
(d) Eco-Centrism
11. What is sustainability science ? Why is sustainability science education important in the era of Climate Change ? 4+6
12. Explain the role of remote sensing in Natural Resource Management. 10
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