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Question Paper Code: 81005

B.E. / B.Tech. DEGREE EXAMINATION, OCTOBER 2014.

Second Semester

Civil Engineering

01UCY204- ENVIRONMENTAL SCIENCE

(Common to all branches)

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. What do you mean by Ecological succession?
2. Define the terms of habitat loss.
3. Define photochemical smog.
4. What is disaster management?
5. What are the renewable energy sources? Give an example.
6. What are the structural components of an ecosystem?
7. What are the ozone layer depleting chemicals?
8. What is wasteland reclamation? Give its benefits.
9. Differentiate Immigration and Emigration.
10. What are the important objectives of family welfare programmes?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) What do you mean by Ecological Pyramid? Explain in detail. (8)
(ii) Explain Grass land Ecosystem in detail. (8)

Or

- (b) (i) Explain the terms of India as a Mega - diversity Nation. (8)
(ii) Briefly explain the conservation of biodiversity. (8)
12. (a) (i) Discuss the sources, adverse effects and control methods of soil pollution. (8)
(ii) Discuss the source, effects and control measures of thermal pollution. (8)

Or

- (b) (i) Explain the major water pollutants and their effects. (8)
(ii) How are solid wastes classified? Describe briefly the various methods of solid waste management and disposal. (8)
13. (a) (i) What is deforestation? Explain its causes. (8)
(ii) Enumerate the environmental effects of extracting and using mineral resources. (8)

Or

- (b) (i) Explain the role of an Individual in conservation of National Resources. (8)
(ii) What are the causes of soil erosion and the methods of preventing it? (8)
14. (a) (i) Write notes on (a) Nuclear Holocaust (b) Environmental ethics (8)
(ii) What is watershed? Discuss the objectives and practices of watershed management. (8)

Or

- (b) (i) What are green house gases and green house effect? Discuss the potential and contribution of these gases to global warming. (8)
(ii) Explain the mechanism of ozone layer depletion and its adverse effects on ecosystem. (8)
15. (a) (i) What is Population Explosion? Explain the causes and effects of pollution. (8)
(ii) Write a note on Human Rights. (8)

Or

- (b) (i) What is AIDS? Mention the symptoms and effects of AIDS. (8)
(ii) Discuss the role of IT in Environmental and human health. (8)