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Question Paper Code: 41025

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Second Semester

Civil Engineering

14UCY204 - ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to ALL Branches)

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. On which date international day for biodiversity is observed
(a) May 15 (b) May 20 (c) May 22 (d) June 5
2. Mushrooms and other fungi are responsible for breaking down dead organic matter. In the ecosystem, they are called
(a) Producers (b) Consumers (c) Developers (d) Scavengers
3. Incomplete burning of petrol or diesel in vehicles create _____ gas which is very poisonous.
(a) Carbon dioxide (b) Carbon monoxide
(c) Methane (d) Ozone
4. Unit of Noise is
(a) Hendry (b) joule (c) decibel (d) Celsius
5. Floods can be prevented by
(a) afforestation (b) cutting the forests
(c) tilling the land (d) removing the top soil

6. Which of the following is a renewable resource
 (a) Soil (b) Water (c) Flora and fauna (d) none of these
7. The primary cause of acid rain around the world is
 (a) Ozone (b) Carbon monoxide
 (c) Carbon dioxide (d) Sulphur dioxide
8. The major environmental protocols of 20th century
 (a) Kyoto protocol (b) Montreal protocol
 (c) both a & b (d) none of these
9. Today, the world's number one problem is
 (a) Pollution (b) Population explosion
 (c) Nuclear proliferation (d) Natural calamities
10. The information system not used for environment is
 (a) GIS (b) Remote sensing
 (c) Employment ENVIS (d) MRI

PART - B (5 x 2 = 10 Marks)

11. Name three types of food chains.
12. What are the major sources of air pollution from automobiles?
13. Define Soil Erosion.
14. What are the factors that influence climate change on the earth?
15. List the special features of Comprehensive programme on women and child welfare.

PART - C (5 x 16 = 80 Marks)

16. (a) Write short notes on the following: Energy flow in eco-system; Pond eco-system and Threats to Biodiversity. (16)

Or

- (b) Explain: Forest ecosystem and Ecological succession. (16)
17. (a) Discuss the effects of noise pollution. Explain various measures to control noise pollution. (16)

Or

- (b) Discuss the causes, effects and control of marine pollution. (16)
18. (a) Discuss the role of an individual in the conservation of natural resources. (16)

Or

- (b) Write a brief note on changes caused by overgrazing and agriculture. (16)
19. (a) Write short notes on Forest Conservation Act. (16)

Or

- (b) Explain in detail the strategies adopted for conservation of water. (16)
20. (a) Explain population growth and population explosion with the various terms involved to control population. (16)

Or

- (b) Briefly discuss HIV/AIDS, mode of its spread and its effect on environment. (16)
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