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Question Paper Code: 42004

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

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 CO1- R
(a) May 15 (b) May 20 (c) May 22 (d) June 5
2. An example of carnivore is CO1- R
(a) Tiger (b) Grass (c) Crow (d) Deer
3. Itai-Itai disease is due to presence of _____ in water. CO2- R
(a) Hg (b) Cd (c) Nitrate (d) Oxygen
4. Unit of Noise is CO2- R
(a) Hendry (b) Joule (c) Decibel (d) Celsius
5. Renewable energy resource is CO3- R
(a) Solar (b) Petroleum (c) Coal (d) None of these

6. Blue baby syndrome is caused by the contamination of water due to _____ CO3- R
 (a) Phosphates (b) Sulphur (c) Arsenic (d) Nitrates
7. The primary cause of acid rain around the world is CO4- R
 (a) Ozone (b) Carbon monoxide (c) Carbon dioxide (d) Sulphur dioxide
8. Global warming is due to the presence of CO4- R
 (a) Oxygen (b) Nitrogen (c) Halogen (d) Carbon dioxide
9. Every _____ person in this world is an Indian CO5- R
 (a) 6 (b) 8 (c) 12 (d) 16
10. The information system not used for environment is CO5- R
 (a) GIS (b) Remote sensing
 (c) Employment ENVIS (d) MRI

PART – B (5 x 2= 10Marks)

11. Name three types of food chains. CO1- U
12. Classify solid wastes. CO2- U
13. What are the environmental effects of extracting and using mineral resources? CO3- U
14. What are the factors that influence climate change on the earth? CO4-U
15. What are the factors which do not influence transmission of HIV? CO5- U

PART – C (5 x 16= 80 Marks)

16. (a) (i) Explain the structural component of forest ecosyste CO1- U (8)
 (ii) Classify the values of biodiversity. Explain any two values of biodiversity. CO1- U (8)

Or

- (b) (i) Write short notes on Biogeographical classification of India. CO1- U (8)
- (ii) Write a note on in-situ conservation of biodiversity. CO1- U (8)
17. (a) Discuss the causes, effects and control of marine pollution. CO2- U (16)
- Or
- (b) (i) Describe the cause, effects and control measures of noise pollution. CO2- U (8)
- (ii) Write the cause, effects and preventive measures of earthquake. CO2- U (8)
18. (a) Explain in detail about role of an individual in conservation of natural resources. CO-3 Ana (16)
- Or
- (b) Discuss the role of an individual in the conservation of natural resources. CO3- Ana (16)
19. (a) (i) Explain the roof top method of rain water harvesting and its advantages. CO4-U (8)
- (ii) Write short notes on water shed management. CO4-U (8)
- Or
- (b) Write short notes on Forest Conservation Act. CO4- U (16)
20. (a) Briefly discuss HIV/AIDS, mode of its spread and its effect on environment. CO5-App (16)
- Or
- (b) (i) What is value education? Discuss the concept of value education with the help of suitable example. CO5-App (8)
- (ii) Deterioration of Environment leads to deterioration of human health. Justify. CO5-App (8)

