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Question Paper Code: 52007

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2024

Second Semester

Civil Engineering

15UCY207 - ENVIRONMENTAL SCIENCE

(Common to ALL Branches)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Ecosystem is smallest unit of CO1- R
(a) Ionosphere (b) Lithosphere (c) Biosphere (d) Mesosphere
2. Wildlife Week is celebrated on CO1- R
(a) 1st October to 7th October (b) 15th October to 21st October
(c) 1st June to 7th June (d) 15th June to 21st June
3. Which of the following is not an air pollutant? CO2- R
(a) Smoke (b) Carbon Dioxide (c) Nitrogen Gas (d) Sulphur Dioxide
4. The acceptable limit of noise during day time is CO2- R
(a) 45 dB (b) 90 dB
(c) 120 dB (d) 150 dB

5. Fuel formed under the earth's surface by the decomposition of organic matter is called CO3- R
- (a) Organic fuel (b) Biogas (c) Fossil fuel (d) Under-ground fuel
6. Which energy is converted into electrical energy by a solar cell? CO3- R
- (a) Chemical Energy (b) Nuclear Energy
- (c) Solar Energy (d) Magnetic Energy
7. Renewable source of energy is CO4- App
- (a) 0 (b)1 (c)2 (d)3
8. Show de – Broglie wavelength (λ) in terms of energy CO4- R
- (a) Coal (b) Petroleum (c) Plants (d) Uranium
9. Study of trends in human population growth and prediction of future growth is called CO5- R
- (a) Demograph (b) Biography (c) Kalography (d) Psychology
10. _____ is the screening test for AIDS. CO5- R
- (a) EULASA (b) ELESA (c) ELASA (d) ELISA

PART – B (5 x 2= 10 Marks)

11. Define Food chain and Food web. CO1- R
12. What are the causes of soil pollution? CO2 -R
13. What is the importance of green power? CO3 -R
14. Distinguish between sustainable and unsustainable development. CO4 -U
15. Write any two reasons for population explosion. CO5 -R

PART – C (5 x 16= 80 Marks)

16. (a) Differentiate In-situ and Ex-situ conservation of biodiversity along with their merits and limitations. CO1-U (16)
- Or
- (b) Explain in detail Forest ecosystem & Ecological succession. CO1 -U (16)
17. (a) Briefly describe about the causes, effects and control measures of municipal solid waste. CO2 -U (16)
- Or
- (b) Summarize the disposal of municipal solid waste management. CO2- U (16)
18. (a) (i) Explain any three solar energy harvesting units that meet out the demand of energy. CO3 -U (8)
- (ii) Describe the Geothermal energy converting process. Mention the advantages and disadvantages of geothermal energy. CO3 -U (8)
- Or
- (b) Discuss in detail the salient features of solar and wind energies. CO3- U (16)
19. (a) Give a detailed account of ozone layer depletion. CO4- U (16)
- Or
- (b) Write briefly on CO4- U (16)
- (i) Nuclear accidents and
- (ii) Acid rain.
20. (a) Explain the role of IT in environment and human health. CO-5 Ana (16)
- Or
- (b) (i) List the symptoms of HIV? How HIV affects a person? How HIV can be prevented. CO5- Ana (8)
- (ii) Discuss the modes of transmission, diagnosis and control of AIDS. CO5- Ana (8)

