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Question Paper Code: U2031

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

Second Semester

Civil Engineering

21UGM231- Environmental Science

(Regulations 2021)

(Common to All branches)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Forest conservation act passed in CO1- U
(a) 1985 (b) 1990 (a) 1985 (b) 1990
2. Select the eco-friendly activity from the following, CO1- U
(a) Burning of solid wastes (b) Avoid dustbins
(c) Reuse the material (d) both (b) and (c)
3. The magnitude of earthquake is _____ 8.5 in richter scale having ability to CO1-U
generate water waves
(a) greater than (b) lesser than (c) equal (d) Constant
4. The acid rain ----- the pH of water. CO1-U
(a) Decrease (b) Increase (c) No change (d) None of these
5. The two gases making highest relative contribution to the greenhouse gases CO1-U
are
(a) CO₂ and N₂O (b) CO₂ and CH₄ (a) CO₂ and N₂O (b) CO₂ and CH₄
6. DNA in cells are affected by CO1-U
(a) Visible rays (b) Infra-red rays (a) Visible rays (b) Infra-red rays
7. Preferred population growth pattern is CO1-U
(a) sigmoid (b) exponential (c) arithmetic (d) None of the above

8. Better standards of living are expected with CO1-U
 (a) Literacy (b) health care (c) women welfare (d) All of the above
9. At present 95% of energy is obtained from fossil fuels like CO2-U
 (a) Anthracite (b) Peat (a) LPG (b)Methane
10. Tidal energy is obtained from CO2-U
 (a) wind (b) fossil fuel (c) ocean (d) sun

PART – B (5 x 2= 10Marks)

11. Write any two scopes of environmental science. CO1-U
12. What will you do if the corporation water has unpleasant smell? CO1-U
13. List out the green house gases? CO1-U
14. State the role of information technology in Environment. CO1-U
15. Explain geothermal energy. CO2-U

PART – C (5 x 16= 80Marks)

16. (a) How can you describe Pond ecosystem? CO1-U (16)
 Or
 (b) Compare the different types of ecological pyramids. Explain in details? CO1-U (16)
17. (a) Elaborate the causes, effects and control measures of water pollution with the recent case study. CO1-U (16)
 Or
 (b) Describe the consequences of control measures of landslides and earth quakes CO1-U (16)
18. (a) What is meant by rain water harvesting? Why is it necessary now a days? CO1-U (16)
 Or
 (b) Discuss the connection between ozone layer depletion and climate change? Outline the reasons of ozone layer depletion and its impact on environment. CO1-U (16)
19. (a) Draw a typical population pyramid of a developing country and discuss how it is likely to differ from that of a developed country. CO1-U (16)

Or

- (b) Narrate the role of information technology in environment management. CO1-U (16)
20. (a) What is the necessity of developing renewable sources and explain with any two renewable energy sources. CO2-U (16)
- Or
- (b) What is the principle used in obtaining useful energy from tidal and geothermal energy? CO2-U (16)

