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Question Paper Code: 39125

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Civil Engineering

01UCE925 - ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to ALL branches)

(Regulation 2013)

Duration: 1:15hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

- Freshwater ecosystem covers ----- percentage of the earth's surface
(a) 0.5 (b) 0.6 (c) 0.7 (d) 0.8
- What is a another major factor for the loss of water
(a) Industrial wastage (b) Evaporation
(c) Human excistence (d) Domestic wastage
- At present National Ambient Air Quality standards exist for how much number criteria pollutants
(a) 8 (b) 11 (c) 6 (d) None of the above
- When a source of pollution cannot be identified then it is named as -----
(a) Point source (b) Nonspecific source
(c) Nonpoint source (d) Unidentified source

5. What are major issues that contribute for global warming
 - (a) Green house
 - (b) Earth quake
 - (c) Carbon mono-oxide
 - (d) Burning of plastics
6. Which sector in U.S accounts for a significant factor for all forms pollutants except for sulfur oxides
 - (a) Industrial sector
 - (b) Medical sector
 - (c) Transportation sector
 - (d) All the above
7. Waste generated from electronic industry is called
 - (a) Bio-medical waste
 - (b) e-waste
 - (c) Solid waste
 - (d) Liquid waste
8. Along which chemical makes a radionuclides much more dangerously radio active
 - (a) Uranium
 - (b) Plutonium
 - (c) Phosphorus
 - (d) None of these
9. What is the key element of environmental impact assessment
 - (a) Skimming
 - (b) Settling
 - (c) Priming
 - (d) Scoping
10. Which of the following is one of the benefits of environmental impact assessment
 - (a) Mitigating
 - (b) obtaining environmental statements
 - (c) Maintenance of biodiversity
 - (d) Screening

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain in detail about the structure and functional components of ecosystem. (8)
12. Explain in detail about the environmental quality objectives and goals. (8)
13. Discuss solid waste management in detail. (8)
14. Briefly explain the engineering interventions to reduce the stress on air. (8)
15. Explain in detail about Environmental Impact Assessment (EIA). (8)