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Question Paper Code: 59175

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

Open elective

Computer Science and Engineering

15UCE975 - ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to ECE, EEE, EIE, MECH, IT, Chemical, Biomedical and
Agriculture Engineering branches)

(Regulation 2015)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

- Interlocking pattern of various food chains is called _____ CO1- R
(a) Food chain (b) Food web (c) Energy flow (d) Tropical levels
- Thickness of Stratosphere is CO1- R
(a) 1-18kms (b) 18-50kms (c) 50-85kms (d) 85-500kms
- Permanent Hardness is caused due to the presence of _____ CO2- R
(a) Chlorides & Sulphides (b) Hydrogen ions (c) Organic matter (d) Acidity
- PH value of soil is between CO2- R
(a) 2.2 to 9.6 (b) 6.5 to 8.5 (c) 6 to 6.5 (d) 2 to 7
- In India the daily per capita generation of municipal solid waste in small towns is _____ CO3- R
(a) 100 g (b) 150 g (c) 130 g (d) 200 g
- Methyl mercaptain is mainly emitted from----- CO3- R
(a) Paper (b) Paper and pulp (c) Pulp (d) Dust
- _____ is formed from incomplete combustion of organic matter. CO4- R
(a) Fumes (b) smoke (c) fog (d) mist

8. The BOD removal efficiency in Activated sludge process is about_____ CO4- R
 (a) 70-80% (b) 60-98% (c) 85-90% (d) 60-80%
9. Which factors affecting efficiency of membrane? CO4- R
 (a) Total dissolved (b) Viscosity (c) Density (d) Kinematic viscosity
10. Which series represent the environmental management standards? CO5-R
 (a) ISO 9001 (b) ISO 50001
 (c) ISO 14000 (d) ISO 40001

PART – C (3 x 8 = 24 Marks)

(Answer any Three of the following questions)

11. Explain in detail about components of environment. CO1- U (8)
12. Explain about physical and chemical properties of soil. CO2-U (8)
13. Explain in detail about environment quality objectives and policies on new projects with their impacts. CO2- U (8)
14. Explain in detail about Bio diversity. CO4- U (8)
15. Explain in detail about different types of clean technologies CO4- U (8)