

Total No of Questions : 5 Total No. of Printed Pages : 4

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B.E. (IVth Sem.) (CGPA) El. & Commn. Engg. Exam.-2016

ENVIRONMENTAL ENGG.

Paper - EL-402

Time Allowed : Three Hours

Maximum Marks : 60

Note : All questions are compulsory. Each question carry equal marks.

- Q.I (a) What are the methods to minimize soil pollution? 6
- (b) Write brief informative note on : 6
- (i) Genetic Biodiversity
- (ii) EL Nino phenomenon.

Or

- (a) What is Global Warming? Explain the causes and effects of Global Warming. 6
- (b) Comments on Homostasis and sustainability of the ecosystem. 6

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(2)

- Q.II (a) Justify the need of waste water treatment. Explain the aerobic treatment of water by oxidation pond method. 6
- (b) Give brief account for inorganic water pollutant. 6

Or

- (a) What was the cause of world known minimata disease? Discuss its poisoning effect on biotic ecosystem. 6
- (b) What is the role of 'Zooglea' in trickling filter treatment? Explain with complete flow chart. 6

- Q.III (a) Give the name of various pollution control equipments? Explain how Electrostatic precipitators work? 6
- (b) Why Ozone holes are formed in the stratosphere? What is the role of Ozone layer in controlling UV rays? 6

Or

- (a) What is the principle of air sampling through absorption? Explain with sampling of NO_x . 6

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Contd....

(3)

(b) What do you understand by ELR and DALR? How environmental conditions can be influenced by the two. 6

Q.IV (a) What are the best practices for solid-waste disposal? Comments on incineration. 6

(b) What are the acoustic absorptive materials? Discuss various materials to prevent sound pollution in difficult areas. 6

Or

(a) Write short notes on : 8
(i) Automotive silencer and damping.

(ii) Biological characteristics of solid waste.

(b) How nuclear reactors can cause pollution? How their failure can be controlled. 4

Q.V (a) What do you know about the Environmental Audit? How it can help in sustainable development? 6

(b) How base-line data can be helpful for good EMS practices? Write a short note on 'TLV', threshold limit value. 6

Or

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(4)

(a) Justify the need of legislation required for environmental protection? How National and International law for environmental protection can be distinguished. 7

(b) Discuss concept of initial environmental examination (IEE). 5