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M.E. / M.TECH. DEGREE EXAMINATIONS, DEC 2019

Third Semester

CL18019 – ENVIRONMENTAL SUSTAINABILITY*(Chemical Engineering)***(Regulation 2018)****Time: Three Hours****Maximum : 100 Marks**Answer **ALL** questions**PART A - (10 X 2 = 20 Marks)**

	CO	RBT
1. What are the owners rights on the property?	1	R
2. Give two alternatives for the environmental values	1	U
3. State the concept of environmental Sustainability.	2	U
4. Write two benefits of urbanization.	2	U
5. Which pollutants from the industry are responsible for acid rain?	3	U
6. List the effect of atmospheric temperature inversion on air pollution.	3	U
7. Which pollutants from the industry are responsible for acid rain?	4	U
8. Classify the solid waste.	4	R
9. What are the indicators of sustainable development?	5	U
10. What are examples of environmental policies?	5	R

PART B - (5 X16 = 80 Marks)

11. (a) “Is putting a price tag on environmental natural resources is right or wrong” – Discuss. **(16)** **1** **C**
- (OR)**
- (b) Write the methodology for survey to find out the willingness of individuals to pay for environmental improvement towards sustainability, with a minimum of 5 survey questions. **(16)** **1** **C**
12. (a) Discuss the ecological damage on agriculture and explain how to reverse the scenario. **(16)** **2** **C**

(OR)

- (b) Discuss sustainable utilization of energy resources vis-e-vis economic development. (16) 2 AN
13. (a) Give an overview on air pollution due to industrialization. (16) 3 U
- (OR)**
- (b) Explain the methods to control the pollution caused by the transportation industry? (16) 3 AP
14. (a) Discuss causes and effects of ground water pollution. (16) 4 U
- (OR)**
- (b) Discuss causes and effects of global warming. (16) 4 U
15. (a) How sustainable environment alleviate poverty? (16) 5 AN
- (OR)**
- (b) Give your visions on future of sustainable development. (16) 5 AN