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Code No. : 14112

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (CBCS) IV-Semester Main & Backlog Examinations, May-2019

Environmental Science

(Civil, CSE & Mech. Engg.)

Time: 3 hours

Max. Marks: 60

Note: Answer ALL questions in Part-A and any FIVE from Part-B.

Q.No.	Stem of the question	M	L	CO	PO
Part-A (10 × 2 = 20 Marks)					
1.	Differentiate between the renewable and non-renewable energy resources.	2	4	1	7
2.	Write the causes of land degradation.	2	1	1	1
3.	Write about the lotic and lentic ecosystem.	2	1	2	1
4.	What is the role of saprophytes in an ecosystem?	2	1	2	1
5.	Differentiate between the endemic and endangered species.	2	4	3	1
6.	Define ex-situ conservation.	2	1	3	8
7.	Distinguish between the pyrolysis and incineration type of solid waste disposal.	2	4	4	6
8.	What is eutrophication?	2	1	4	1
9.	Write the effects of acid rain.	2	1	5	1
10.	Mention important greenhouse gases.	2	1	5	1
Part-B (5 × 8 = 40 Marks)					
11. a)	Categorize and explain various types of soil erosion along with control measures.	4	4	1	6
b)	Discuss the effects of modern agriculture on environment.	4	2	1	7
12. a)	Discuss the structure and function of an ecosystem.	4	2	2	1
b)	Describe the salient features of marine ecosystem.	4	2	2	1
13. a)	Differentiate between the different values that are assigned to biodiversity.	5	4	3	1
b)	Describe in detail the in-situ conservation of biodiversity.	3	2	3	8
14. a)	Evaluate the effects of air pollution on plants, animals and human beings.	5	4	4	6
b)	What are the causes and effects of noise pollution?	3	1	4	6
15. a)	Write the effects of population explosion.	4	1	5	1
b)	Describe the causes and effects of ozone layer depletion.	4	2	5	1
16. a)	Discuss the scope and importance of environmental studies.	4	2	1	1
b)	Classify and explain various types of food chains along with examples.	4	4	2	1
17.	Answer any <i>two</i> of the following:				
a)	Explain the different threats to biodiversity.	4	2	3	1
b)	Describe the causes and effects of thermal pollution.	4	2	4	6
c)	Write notes on climate change.	4	1	5	1

M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	60%
2	Knowledge on application and analysis (Level-3 & 4)	40%
3	*Critical thinking and ability to design (Level-5 & 6) (*wherever applicable)	--