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Code No. : 14149 AS

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. IV-Semester Advanced Supplementary Examinations, September-2022.

Environmental Science

(Common to Civil, CSE, AIML)

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PO
1.	What factors will influence quality of water resources?	2	3	1	7
2.	What are renewable energy resources? Give examples.	2	1	1	7
3.	Define food web and write its importance.	2	1	2	7
4.	List out the functional aspects of ecosystems?	2	3	2	7
5.	Define species diversity with examples.	2	1	3	7
6.	What do you understand by the term endangered species? Specify few endangered species.	2	2	3	7
7.	List out the sources of noise pollution?	2	3	4	6
8.	What is incineration?	2	1	4	6
9.	Which substances lead to Ozone layer depletion?	2	2	5	6
10.	Write any two effects of acid rain.	2	1	5	6
Part-B (5 × 8 = 40 Marks)					
11. a)	Discuss the causes of soil erosion and land degradation?	4	2	1	7
b)	Explain the reasons behind food resource exploitation?	4	3	1	7
12. a)	How can you differentiate producers, consumers and decomposers based on nutritional status?	5	4	2	7
b)	Define and explain food chains with examples.	3	1	2	7
13. a)	Explain productive and consumptive value of biodiversity?	4	2	3	7
b)	Define and categorize different methods of in-situ and ex-situ conservation.	4	3	3	7

Contd... 2

14. a)	What effects are generated by air pollution?	5	2	4	7
b)	Write the control measures of air pollution.	3	1	4	7
15. a)	What are the consequences of global warming?	4	4	5	6
b)	Analyze the efficient ways to manage e-waste?	4	3	5	7
16. a)	What do you think are the positive impacts of dams?	4	2	1	1
b)	Explain the structural components of pond ecosystem?	4	2	2	7
17.	Answer any <i>two</i> of the following:				
a)	Discuss threats to biodiversity?	4	2	3	7
b)	Examine the sources and effects of soil pollution?	4	3	4	1
c)	Suggest the best water conservation and harvesting methods suitable to India.	4	3	5	7

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

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	36.25%
iii)	Blooms Taxonomy Level – 3 & 4	43.75%
