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Code No. : 16534 AS

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. (Mech. Engg.) VI-Semester Advance Supplementary Examinations, August-2022

Environmental Science

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.	List out any three causes of floods. ✓	2	1	1	1
2.	What do you mean by biomagnifications?	2	1	1	1
3.	Define ecosystem. ✓	2	1	2	1
4.	What are autotrophs?	2	1	2	1
5.	Define hotspot in biodiversity?	2	1	3	7
6.	Give two examples for the endemic species of India? ✓	2	1	3	7
7.	What is e-waste?	2	1	4	7
8.	Enlist any three reasons for air pollution. ✓	2	2	4	7
9.	Give the list of ozone depleting substances. ✓	2	1	5	1
10.	What is meant by climate change? ✓	2	2	5	1
Part-B (5×8 = 40 Marks)					
✓ 11.	a) Explain the benefits and problems of big dams. ✓	4	2	1	6
	b) Describe the impacts of modern agriculture. ✓	4	3	1	6
✓ 12.	a) Discuss any one aquatic ecosystem in terms of their structure and functions.	4	2	2	7
	b) What are different types food chains? Discuss grazing food chain with neat sketch.	4	2	2	7
✓ 13.	a) Classify the levels of biodiversity and explain in detail genetic level biodiversity with examples.	4	4	3	1,7
	b) Explain the major threats to the biodiversity.	4	2	3	1,7
✓ 14.	a) What is municipal solid waste? Identify best waste management methods. ✓	4	3	4	7
	b) Discuss the causes and implications of acid rain, How can we avoid it. ✓	4	3	4	7
15.	a) Explain the phenomenon of global warming and the factors contributing to it. ✓	4	4	5	6
	b) Write a note on key elements of EIA. ✗	4	2	5	6
16.	a) Discuss non renewable energy sources? ✓	4	2	1	7
	b) Discuss the ecological pyramids with neat sketch ✗	4	2	2	7
✓ 17.	Answer any <i>two</i> of the following:				
	a) Distinguish the terms endangered, endemic, and extinct species. ✓	4	4	3	1
	b) Analyze the causes and effects of noise pollution. ✓	4	4	4	6
	c) List out different water conservation techniques? Illustrate rain water harvesting method adopted in your locality?	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	40%
iii)	Blooms Taxonomy Level – 3 & 4	40%
