

Hall Ticket Number:

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Code No. : 16548 AS

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. VI-Semester Advanced Supplementary Examinations, July-2023

Environmental Science

(Mech. Engg.)

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.	Define desertification.	2	1	1	7
2.	What is meant by water conflict? Give examples.	2	1	1	7
3.	Explain micro consumers and their role in an ecosystem.	2	1	2	7
4.	Define lotic and lentic ecosystems.	2	1	2	7
5.	Differentiate between endemic and endangered species.	2	1	3	7
6.	Briefly explain the role of IUCN.	2	2	3	6
7.	Write any three adverse health effects of noise.	2	1	4	7
8.	Which category of waste do batteries come? List out heavy metal pollutants	2	1	4	6
9.	Define EIA.	2	1	5	1
10.	What is acid rain?	2	2	5	7
<b>Part-B (5 × 8 = 40 Marks)</b>					
11. a)	Define soil erosion. Explain various types of soil erosion.	4	2	1	7
b)	Differentiate between renewable and non-renewable energy resources. Give examples of each one of them.	4	3	1	7
12. a)	Explain the structure and functions of an ecosystem.	4	2	2	7
b)	What are the significances of ecological pyramids? Classify various types of ecological pyramids.	4	2	2	7
13. a)	Define biodiversity. How is biodiversity valuable to humankind?	4	2	3	6
b)	Describe in-situ and ex-situ conservation of biodiversity with appropriate examples.	4	3	3	7
14. a)	Write a note on physical, chemical and biological effects of water pollution.	4	3	4	1
b)	What are the various control measures of soil pollution?	4	2	4	1
15. a)	Explain sustainable development. What are the various sustainable development goals?	4	2	5	7
b)	Define global warming. Explain how global warming and climate change are related to each other.	4	4	5	7
16. a)	Discuss pros and cons of dams.	4	3	1	1
b)	Differentiate between food chain and food web.	4	2	2	6
17.	Answer any <i>two</i> of the following:				
a)	Enlist the key highlights of Biological Diversity Act 2002	4	3	3	7
b)	Explain various steps adopted in solid waste management.	4	3	4	7
c)	Discuss about the consumerism and its impact on environment.	4	4	5	8

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%

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