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Code No. : 16541 N/O

**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD**  
 Accredited by NAAC with A++ Grade

**B.E. VI-Semester Main Examinations, May/June-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.	Why do you think conflicts over water arise?				
2.	Enumerate some of the alternate sources of fuel to reduce pollution.	2	4	1	6
3.	Who are producers of lake ecosystem? Give examples	2	2	1	7
4.	Give an example for inverted pyramid.	2	1	2	1
5.	Name some endangered and endemic species of India.	2	2	2	1
6.	Identify the reason behind man and wildlife conflicts.	2	1	3	8
7.	Write the effects of soil pollution.	2	3	3	8
8.	How three bin system helpful for better management of municipal solid waste?	2	1	4	7
9.	List out any 2 SDGs.	2	4	4	7
10.	Write salient features of EPA, 1986.	2	1	5	7
		2	1	5	6
<b>Part-B (5 × 8 = 40 Marks)</b>					
11. a)	"Overutilization of water resources leads to pollution" -- Comment on this statement.	4	5	1	7
b)	Explain the effects and control measures of desertification.	4	2	1	7
12. a)	Describe the types of food chains along with one example each.	4	2	2	1
b)	Discuss about pond ecosystem with neat sketch.	4	2	2	1
13. a)	Identify and explain the different conservation methods of biodiversity.	4	3	3	8
b)	What are direct and indirect values of biodiversity, explain in detail with examples.	4	1	3	8
14. a)	Illustrate the causes, effects and control measures of water pollution.	4	2	4	7
b)	How do you contribute to responsible solid waste management as an individual in the society?	4	6	4	7
15. a)	"Responsible consumerism is the key to the balance between what nature is giving us and what we are giving back" Explain.	4	4	5	6
b)	Explain how global warming and ozone layer depletion leads to climate change.	4	3	5	7
16. a)	Explain the need for public awareness on Environmental Science.	4	2	1	7
b)	Describe the structure and function of an ecosystem.	4	2	2	1
17.	Answer any <b>two</b> of the following:				
a)	What are the salient features of Biological Diversity Act, 2002?	3	1	3	7
b)	Propose how to encourage the use of alternate fuels for India's energy requirements to reduce pollution.	3	4	4	7
c)	Explain negative impact of population explosion.	2	2	5	7

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

i)	Blooms Taxonomy Level - 1	22.4%
ii)	Blooms Taxonomy Level - 2	39.4%
iii)	Blooms Taxonomy Level - 3 & 4	38.2%

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