Hall Ticket Number:

Code No. : 14149

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD
Accredited by NAAC with A++ Grade
B.E. IV-Semester Main & Backlog Examinations, August-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.	Classify natural resources with examples.	2	4	1	7
2.	Discuss desertification.	2	2	1	1
3.	Define food chain with examples.	2	1	2	7
4.	What are the functions of decomposers?	2	4	2	7
5.	Define genetic diversity with example.	2	1	3	7
6.	Explain endemic species with examples.	2	2	3	7
7.	List out the sources of air pollution.	2	3	4	1
8.	Define e-waste.	2	1	4	2
9.	Which substances lead to Green House Effect?	2	3	5	7
10.	Define Environmental Impact Assessment.	2	1	5	7

Part-B (5 × 8 = 40 Marks)

Q. No.	Stem of the question	M	L	CO	PO
11. a)	Explain problems associated with utilization of fertilizers and pesticides in agriculture.	4	2	1	2
b)	What are the negative impacts of dams on environment?	4	3	1	2
12. a)	Discuss the factors considered as structural aspects of an ecosystem.	5	3	2	7
b)	Explain in detail ecological pyramids.	3	2	2	7
13. a)	Identify various threats on biodiversity.	5	3	3	7
b)	How is In-Situ conservation different from Ex-Situ conservation?	3	4	3	7
14. a)	Which sources can cause the water pollution? Write few effects of water pollution.	5	3	4	7,2
b)	Give a note on solid waste disposal methods.	3	2	4	7,2
15. a)	What are the negative outcomes of population explosion?	5	4	5	7
b)	Give a brief description on climatic change.	3	2	5	7
16. a)	Explain the effects of modern agriculture on food resources.	4	2	1	7
b)	Write the structure of pond ecosystem.	4	2	2	7
17.	Answer any *two* of the following:				
a)	Describe the values of biodiversity.	4	1	3	7
b)	Define and discuss thermal pollution.	4	1	4	6
c)	What are the consequences of Ozone layer depletion?	4	4	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	31.25%
iii)	Blooms Taxonomy Level – 3 & 4	48.75%

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