Code No.: 12223 N

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. II-Semester Main Examinations, August-2023

Environmental Science

(Common to CSE, AIML, EEE & IT O: Mech.)

Time: 3 hours.

Max. Marks: 60

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

Part-A $(10 \times 2 = 20 \text{ Marks})$

Q. No.	Stem of the question	M	L	СО	PC
1.	What are the effects of desertification?	2	1	1	7
2.	Differentiate between renewable and non-renewable energy resources.	2	2	1	7
3.	Explain how energy flows through atmosphere.	2	1	2	7
4.	Draw any one food chain and explain.	2	2	2	6
5.	Differentiate between National Park and reserve forest.	2	2	3	7
6.	State biological diversity act, 2002	2	1	3	6
7.	Name any four air pollution control devices.	2	1	4	1
<u>8</u> .	Write about abscission and epinasty in plants.	2	2	4	6
9.	Name any two water conservation techniques at community level.	2	1	5	1
10.	Explain EPA, 1986	2	2	5	6
	Part-B $(5 \times 8 = 40 \text{ Marks})$				
1. a)	Identify mitigative measures are to be taken to minimize the depletion of water resources.	4	3	ì	6
b)	Describe the merits and demerits of constructing dams.	4	3	1	7
2. a)	Evaluate salient features of pond ecosystem.	4	3	2	7
b)	Define food web along with an example.		2		
3. a)	Write about direct and indirect values of biodiversity.		1	3	7
	Describe-the hotspots of biodiversity.		3	3	
	Explain the statement "One person's waste is another's wealth".		1		7
	Explain noise pollution and its control methods.			4	8

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	What are the measures to be taken to mitigate global warming and climate change?	4	2	5	7
	Support the statement "Responsible consumerism is the key to sustainable development".	4	4	5	6
16. a)	Discuss the theory and practices of sustainability in the field of environmental studies.	4	4	1	7
b)	Define photoautotrophs, Chemoautotrophs, consumers and decomposers .give examples	4	2	2	7
17.	Answer any two of the following:				
a)	Explain the saying "India is a megadiverse nation".	4	2	3	7
b)	Analyze the causes and effects of water pollution.	4	1	4	6
c)	Write a short note on Sustainable Development Goals.	4	2	5	8

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

	4	22.5%
(;	Blooms Taxonomy Level – 1	22.370
1)		37.5%
ii)	Blooms Taxonomy Level – 2	
	Blooms Taxonomy Level – 3 & 4	40%
iii)	Blooms 1 axonomy Level 300	
