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Code No. : 13312

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**B.E. (CBCS) III-Semester Main Examinations, December-2018**

**Environmental Science**

(EEE, ECE & IT)

Time: 3 hours

Max. Marks: 60

*Note: Answer ALL questions in Part-A and any FIVE from Part-B*

Q.No.	Stem of the question	M	L	CO	PO
<b>Part-A (10 × 2=20 Marks)</b>					
1.	Define renewable energy resources with two examples.	2	1	1	7
2.	Draw the hydrological cycle.	2	1	1	1
3.	What is an ecological pyramid?	2	1	2	1
4.	Define the terms saprotrophs and autotrophs.	2	1	2	1
5.	What are endangered and endemic species?	2	1	3	1
6.	Define the term genetic biodiversity.	2	1	3	1
7.	What is pyrolysis and incineration?	2	1	4	6
8.	Define necrosis and epinasty.	2	1	4	7
9.	Write the reasons for population explosion.	2	1	5	1
10.	State the effects of ozone layer depletion.	2	1	5	7
<b>Part-B (5 × 8 = 40 Marks)</b>					
11. a)	Explain any one river water dispute of India.	4	2	1	1
b)	Describe the following problems of modern agriculture. i) Water logging salinity      ii) Fertiliser- pesticide problem	4	2	1	7
12. a)	Illustrate the various characteristics of Pond ecosystem	4	3	2	1
b)	What is the structure and function of an ecosystem?	4	1	2	1
13. a)	Discuss in detail the various methods of conservation of species.	4	2	3	8
b)	Write notes on the different threats to biodiversity.	4	1	3	1
14. a)	Examine the various causes and effects of water pollution	5	4	4	7
b)	Write a short note on indoor air pollution.	3	1	4	7
15. a)	Discuss the causes, effects of greenhouse effect and its control measures.	5	1	5	6
b)	Explain the different water conservation methods.	3	2	5	7
16. a)	Classify the various types of soil erosion and mention methods to control it.	5	4	1	1
b)	Categorise and explain the various types of food chains with neat sketches	3	4	2	1
17.	Answer any <i>two</i> of the following:				
a)	Categorise the various values of biodiversities and describe them.	4	4	3	1
b)	Examine the causes and effects of thermal pollution.	4	4	4	7
c)	Write notes on climate change	4	1	5	1

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

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	59
2	Knowledge on application and analysis (Level-3 & 4)	41
3	*Critical thinking and ability to design (Level-5 & 6) (*wherever applicable)	

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