## **B.Tech. DEGREE EXAMINATION, DECEMBER 2015**

First Semester

## 15CY102 - PRINCIPLES OF ENVIRONMENTAL SCIENCE

(For the candidates admitted during the academic year 2015 - 2016)

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- Part A should be answered in OMR sheet within first 45 minutes and OMR sheet should be handed over to hall invigilator at the end of 45<sup>th</sup> minute. (i)
- Part B and Part C should be answered in answer booklet. (ii)

Time: Three Hours

Max. Marks: 100

		PART – A $(20 \times 1 = 20 \text{ Marks})$ Answer ALL Questions			
1.	()	development of a bare area without any Sere Nudation	(B)	form is called as Reaction Ecesis	
2.	(A)	rgy flow in an ecosystem is Unidirectional Multidirectional		Cyclic Sequential	
3.	(A)	ic environment does not include Plants Air	` '	Animals Decomposers.	
4.	(A)	umid of Energy is always Inverted Spindle shaped		Upright Inverted and upright	
5.	(A)	ospheric layer near the surface of the ea Lithosphere Troposphere	(B)	n Mesosphere Stratosphere	
6.	(A)	the pollutants given in the list are second $O_3$ Particulate	(B)	pollutants except PAN CO <sub>2</sub>	
7.	(A)	effect of ozone layer depletion is Skin cancer Draught		Forest fire Acid rain	
8.		are used to remove particulate Gravity settling chambers Meshes	(B) (D)	0	
9.	(A)	ncrease in nutrient level is known as Flocculation Eutrophication	(B) (D)	Screening Sedimentation	

$PART - B (5 \times 4 = 20 \text{ Marks})$ Answer ANY FIVE Questions							
	(C)	Riode Janeiro	(D)	Johannesburg			
		Kyoto	(B)	Stockholm			
20	The a	earth summit was held at					
19.	1	is not a green house gas CH <sub>4</sub> Water vapour	(B) (D)				
10	(C)	Ozone layer depletion	(D) (R)	Control of population growth Control of green house gas emission			
18.	The (A)	main objective of Vienna convention w Sustainable development					
17.	(2 2)	environmental protection Act was enac 1986 1974	(B)	the year 1994 1975			
	(A) (C)	Parks Rubber	(D)	Fruits & Vegetables Honey			
16.		thetic value includes	(D)	Leopard			
15.	(2 1)	ndia, the critically endangered species is Peacock Lion	<b>(B)</b>	Tiger			
	(C)	Botanical garden	(B) (D)	rategy? Zoo Seed Banks			
14.		ch of the following is in-situ conservati	(D)	Alien			
13.	The (A)	species that are confined to a particular Endangered	geog	graphical area are calledspecies Endemic			
		Cooling towers Electrostatic Precipitators	(B)	Cyclone collectors Wet scrubbers			
12.		are used to remove waste heat from		Pyrolysis			
	(A)	Incineration Autoclaving	(B)	Biological treatment			
11.		larger proportion of organic matter in s					
10	(A)	Land dumping  Air disposal		Ocean Dumping Incineration			
10		affects marine ecosystems					

## Answer ANY FIVE Questions

- 21. Explain the different types of food chain with suitable examples.
- 22. Write the sources and effects of radioactive pollution.

23. Write a note on species diversity. 24. Discuss Autoclaving 25. List out the functions of central pollution control board. 26. Explain water cycle. 27. Define the following: (ii) Keystone species Indicator species  $PART - C (5 \times 12 = 60 Marks)$ Answer ALL Questions 28. a. Discuss in detail about ecological succession. (OR) b. Define: Environmental education. Discuss the objectives and importance of environmental education. 29. a. Give an account on sources and effects of air pollution. (OR) b. Explain the following: (ii) Green house effect. (i) Ozone layer depletion 30. a. Explain Waste Water Treatment. (OR) b. Discuss in detail about Solid Waste Management.

31. a. Explain in detail about the values of biodiversity.

(OR)

- b. Write in detail about ex-situ conservation.
- 32. a. Explain about rio declaration.

(OR)

b. Discuss in detail about National Concern for environment.