	Reg. No.:										
Question Paper Code: 51207											
B.E. / B.Tech. DEGREE EXAMINATION, JUNE 2016											
	Second Semester										
	Civil Engineering										
	15UCY207 - ENVIRONMENTAL SCIENCE										
	(Common to ALL Branches)										
	(Regulation 2015)										
	Duration: Three hours Answer ALI	. Que	estio	ns			Max	kimu	m: 1	00 N	Iarks
	PART A - (10 x	1 = 1	10 M	[arks)						
1.	Interlocking pattern of various food chains	in an	ecos	syste	m is	calle	ed as				
	(a) Food web		_	bivo							
	(c) Seres (d) Food chain										

(b) Ecosystem diversity

(d) *nm*

(d) Biodiversity

(c) ppm

(b) Reuse

(d) All the above

4. Which of the following strategies should be given first preference as far as the

2. Genetic variation between distinct populations of the same species is known as

(b) *dB*

(a) Species diversity

(c) Genetic diversity

The unit of noise is measured in

management of plastic waste is concerned?

(c) Seres

(a) *Cm*

(a) Recycle

(c) Reduce

5.	Father of nuclear p	ower development in	India is						
	(a) Newton		(b) Einstein						
	(c) Dr. H. Bha	bha	(d) Dr. A.P.J.	Abdul kalam					
6.	Minimum speed re	equired for satisfactor	y working of wind	generator is kn	n/hr.				
	(a) 20	(b) 10	(c) 50	(d) 15					
7.	Ozone depletion is	caused by							
	(a) Nitrous ox	ide	(b) Carbon di	(b) Carbon dioxide					
	(c) Chlorofluo	ro carbon	(d) Methane	(d) Methane					
8.	Which of the follo	wing gas is the most	common and impor	tant in green house?					
	(a) CO_2	(b) O_2	(c) O_3	(d) CCl_4					
9.	Population explosi	on will cause							
	(a) Socio-ecor	nomic problems	(b) Food secu	(b) Food security					
	(c) Energy cris	sis	(d) All the ab	(d) All the above					
10.	HIV passes from i	nfected person to other	ers by						
	(a) Saliva		(b) Contamin	(b) Contaminated syringe					
	(c) Blood cont	act	(d) All the ab	ove					
		PART - B ($5 \times 2 = 10 \text{ Marks}$						
11.	Define endangered	l species.							
12.	Give examples for	primary and seconda	ry air pollutants.						
13.	What are fossil fue	els?							
14.	Mention the cause	s and effects of acid r	rain.						
15.	What is population	n explosion?							
		PART - C (5	$5 \times 16 = 80 \text{ Marks}$						
16.	(a) (i) Explain th	e role of producers, c	onsumers and deco	mposers in an ecosystem	. (8)				
	(ii) Explain th	e present day major t	hreats to the biodiv	ersity of India.	(8)				
			Or						

	(b)	(i)	Briefly discuss the structure and function of forest eco system.	(8)		
		(ii)	Explain in-situ and ex-situ conservation of biodiversity along with their me and limitations.	erits (8)		
17.	(a)	(i)	Explain the causes, effects and control measure of water pollution.	(8)		
		(ii)	List the various ways in which an individual can contribute towards polluprevention in the society.	tion (8)		
			Or			
	(b)	(i)	Discuss the effects and control measures of thermal pollution?	(8)		
		(ii)	What do you understand by natural disasters? What measures you would tak prevent loss of lives from floods and earthquake? Explain.	e to (8)		
18.	(a)	(i)	What are tidal energy? Explain the significance of it.	(8)		
		(ii)	Explain the importance and benefits of green power.	(8)		
			Or			
	(b)	(i)	Describe the methods of harvesting solar energy.	(8)		
		(ii)	What is wind energy? Explain the advantages and disadvantages of we energy.	vinc (8)		
19.	. (a) Explain the phenomenon of green house effect. What factors are responsible global warming? Discuss the safety measures recommended to control the					
			Or			
	(b)	(i)	Discuss the causes and effects of the following: (1) Acid rain			
			(2) Ozone depletion	(8)		
		(ii)	What is rainwater harvesting? What are the major objectives of rainw harvesting?	ateı (8)		
20.	(a)	(i)	List out the salient features of the universal declaration of human rights.	(8)		
		(ii)	Discuss the modes of transmission, diagnosis and control of AIDS.	(8)		

Or

(b)	(i)	Explain the role of information technology in environment and	human	health
				(10)
((ii)	What is value education? Discuss the concept in details.		(6)