[This question paper contains 2 printed pages.] Sr. No. of Question Paper: 1860 \mathbf{E} Your Roll No..... Unique Paper Code : 216655 : B.Sc. Life Sciences Name of the Course : Ecology and Environmental Management (LSPT-615) Name of the Paper : VI Semester Duration: 3 Hours Maximum Marks: 75 Instructions for Candidates 1. Write your Roll No. on the top immediately on receipt of this question paper. 2. Attempt five questions in all. Question No. 1 is compulsory. 3. All questions carry équal marks. 4. All parts of a question must be answered together. 5. (a) Explain the following terms (any five): $(5 \times 2 = 10)$ (i) Pedogenesis

(ii) Niche

(iii) Biome

(iv) Exosphere

(v) Edge effect		•
(vi) Smog		
(vii) Synecology	, i	*
ill in the blanks (any five):		(5×1=5)
(i) are shade preferring plan	ts.	, A
(ii) is the instrument used to	measure wind v	elocity.
(iii) is an example of an insec	tivorous plant.	

		(iv) is the book listing threatened and endangered species plants and animals.	es of
		(v) is the soil transported by wind.	
		(vi) The final, terminal, stable community is called	
		(vii) water is the main source of water available for the roo the plants.	ts of
2.	Dif	ferentiate between the following (any three): (3×5=	=15)
	(a)	In-situ and ex-situ conservation	
	(b)	Food chain and Food web	
	(c)	Mor Humus and Mull Humus	
	(d)	National Parks and Sanctuaries	
	(e)	Analytical and Synthetic character	
3.	(a)	What are ecosystem energetics? Explain single-channel energy flow m in an ecosystem.	odel (8)
	(b)	Give an account of vegetation of India.	(7)
1.	(a)	What is EIA? How does it help in conservation of the environment?	(8)
	(b)	Discuss any gaseous biogeochemical cycle along with a suitable diagra	nm. (7)
5.	(;,)	Define a population. Briefly discuss the characteristics of a population.	(8)
	(b)	Give a sequential account of succession in a Xerosere.	(7)
5 .	Wri	ite short notes on the following (any three): (3×5	=15)
	(a)	Soil Profile	
	(b)	Project Tiger	
	(c)	Ecological Pyramids	
	(d)	Raunkiaer's life forms	•
	(c)	Mutualism	
<i>i</i> .	(a)	Discuss various sources and effects of water pollution.	(8)
	(b)	What is bioremediation? Explain its types giving suitable examples.	(7)
		. (1	800)