## M.Sc. (Part-II) (Environmental Science) (CBCS Pattern) Semester - IV

## **PSCENVT16.2-B - Foundation Course : Green Technologies**

P. Page Time:	es: 1 Three	Hours * 1 5 3 9 *	<b>GUG/S/23/11384</b> Max. Marks: 80
1	Notes:	<ol> <li>All questions are compulsory and carry equal marks.</li> <li>Illustrate the answers with suitable diagrams and examples.</li> </ol>	
1.	Dis	scuss green economy and green chemistry.	16
		OR	
	a)	Shed light on successful green technologies.	8
	b)	Discuss paradigm shift from 'cradle to cradle' to 'cradle to grave'.	8
2.	Dis	scuss green buildings with following points:	16
	i)	Construction;	
	ii)	Cost and benefits;	
		OR	
	a) b)	Discuss about UNEP's green economy initiative. Highlight the role of government bodies in green planning.	8
3.	De	scribe various methods for carbon capture and storage technologies.	16
		OR	
	a)	Explain construction and working of flue gas desulfurization unit.	8
	b)	Describe the methods to increase energy efficiency.	8
4.		nat is green nanotechnology? Discuss principles and recognition of green vironmental science.	n criteria in 16
		OR	
	a)	Describe biodegradable and bio-accumulative products in environmen	at. 8
	b)	What are photodegradable plastic bags?	8
5.	a)	Give an account on 3 R's of green technology.	4x4 =16
	b)	Explain the concept of green cities.	-10
	c)	Discuss in brief dioxin reduction and removal methods.	
	d)	Explain green alternatives to chemical reagents.	

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