

Code No: **RT41016F** 

## **R13**

Set No. 1

## IV B.Tech I Semester Supplementary Examinations, February/March - 2018 **GREEN TECHNOLOGIES**

(Open Elective)

Time: 3 hours Max. Marks: 70

> Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B \*\*\*\*

		PART-A (22 Marks)	
1.	a)	Write a short note why green technology is very important now a days?	[3]
	b)	List various benefits of cleaner production.	[3]
	c)	Discuss how you identify the opportunities to better assess cleaner production.	[4]
	d)	Write about environmental management hierarchy.	[4]
	e)	Discuss the future need of conventional energy resources.	[4]
	f)	Write the sustainability of geothermal energy in Indian practice.	[4]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Discuss the strategies in detail how to achieve sustainable development in a	
		country through green technologies.	[8]
	b)	Explain in detail the factors affecting green technologies.	[8]
3.	a)	Write the differences between cleaner production and end-of-pipe approach.	[8]
	b)	Discuss various barriers of cleaner production process. Also write the processes	
		which do not come under cleaner production.	[8]
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4.		Write the problems, causes and possible solutions for cleaner production	
		Financing.	[16]
5.		Discuss in details methods for analyzing data and effectiveness in prevention of	
		pollution and achieving cleaner production.	[16]
6.		What are the major non-conventional energy resources in India? Discuss how	
		important to utilize wind based and solar based energy with the associated	
		principles.	[16]
7.		Compare and contrast the green fuels with conventional fossil fuels with	
		reference to the following aspects:	
		a) Environmental	
		b) Economical	F4 -7
		c) Social impacts	[16]