Q.P. Code :08571

[Marks:60]

		N.B:	1.	All questions are c	ompulsory.	2000
			2.	All questions carry	y equal marks.	
			3.	Draw neat and lab	pelled diagrams wherever necessary.	
Q.1		Answer any two questions from following :				3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	a.	a. Explain zero waste technology.) () ()
	b.	Explain in brief twelve principles of green chemistry.				06
	c.	Describe the concept of atom economy and carbon trading.				
Q.2		Answer any two questions from following:				
	a.	. Explain importance and use of immobilized solvents and ionic liquids.				06
	b.	How are starting materials selected for green synthesis and what is the use of blocking / protecting groups?				
	c.	Explain use of microwaves and ultrasonic as energy requirements in green synthesis.				
Q.3		Answer any two questions from the following:				
		a. Explain briefly green nanoparticle production and characterization.				06
		How can nanotechnology be used for resource conservation?				
	c.	Write short	notes	on (i) Fullerene	(ii) Carbon nanotube	06
Q.4		Answer any two questions from following:				
	a.	Describe solar photovoltaic technology.				
			0-, 101		thanol and give its applications.	06
	c.	Explain conc	ept of	f green buildings.		06
Q.5		Answer any four question from the following:				
	a.	Green techn	ology	in food processing.	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	03
	b.	Electric vehic	cle.		£ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	03
	C.	Selection of auxilliary substances.				
	d.	Designing of biodegradable products.				03
	e.	Concept of environmentally balanced industrial complexing.				03
	f.	Bio compatil	oility.			03
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[Time: 2½ Hours]

Please check whether you have got the right question paper.