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2	222 :	3										
3	Ho	ours /	70	Marks	Seat	No.						
	Instru	uctions –	(1)	All Questions are Compulsory.								
			(2)	Illustrate your necessary.	r answers	with	neat s	ketc	hes	wł	iere	ever
			(3)	Figures to the	e right ind	licate	full n	narks	5.			
			(4)	Assume suita	ble data, i	f nece	essary.					
			(5)	Mobile Phone Communication Examination	on devices							
												Marks
1.		Attempt	t any	FIVE of the	following	; .						10
	a)	Define '	Waste	Management.								
	b)	Give cla	assific	eation of recyc	ling techni	iques.						
	c)	State ro	le of	enzymes in b	iodegradati	ion						
	d)	Enlist th	ne cri	teria for sortin	ng of plast	ic wa	ste.					
	e)	State M	ethan	olysis reaction	for PET.							
	f)	Give an	y two	applications	of recycle	d LDI	PE.					
	g)	Enlist a	ny tw	o energy reso	urces.							
2.		Attempt	t any	THREE of t	the followi	ing:						12
	a)	Explain	the r	need of plastic	waste ma	ınagen	nent.					
	b)	State an	y fou	ir properties a	nd applicat	tions	of PH	A.				
	c)	Differen	tiate	between sortin	g and sepa	aratio	n.					
	d)	Describe	inci	neration proces	ss for mix	ed pla	astic.					

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			Marks
3.		Attempt any THREE of the following:	12
	a)	Explain in brief 4R terminology to control the pollution due to plastic waste.	
	b)	Describe collection system of plastic waste.	
	c)	Explain in brief gasification of plastic waste.	
	d)	State any four applications of recycled polypropylene.	
4.		Attempt any THREE of the following:	12
	a)	With neat diagram explain float and sink separation method.	
	b)	Describe the process of granulation of plastic waste.	
	c)	Elaborate applications of recycled HDPE.	
	d)	State the various selection criteria for plastic waste for manufacturing recycled plastic product with respect to percentage and times of recycling.	
	e)	Explain characteristic features and function of eco system.	
5.		Attempt any TWO of the following:	12
	a)	Define waste, explain various sources of plastic waste.	
	b)	Explain role of different additives used for improving propert of recycled plastic.	ies
	c)	Name any four products made from recycled plastics, state their advantages and limitations.	
6.		Attempt any TWO of the following:	12
	a)	State selection criteria for land fill site and describe process land filling.	of
	b)	With neat diagram describe extrusion process for melf reprocessing.	
	c)	Explain the cause, effects and control measures of air pollution	on.