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	(AUTONOMOUS) B.Tech IV Year I Semester Regular Examinations November/December-2022															
	SOLID WASTE & BY-PRODUCT UTILIZATION															
			501													
(Agricultural Engineering) Time: 3 hours Max. Marks: 60															rks: 60	
	(Answer all Five Units $5 \times 12 = 60$ Marks)															
	UNIT-I															
1	a Explain briefly about Solid waste management.												I	_2	6M	
	b Discuss about advantages and disadvantages of composting.												_6	6M		
	OR															
2		st out the ty	pes of	biogas	s plant	s and	explai	n abou	it Jana	atha bi	iogas p	olant w	ith L	.1	12 M	
	neat sketch.															
2		White sheet	at his f	l	1 41 :		and the second s	T-II					т	1		
3		Write abou						lais.						.1 .4	6M 6M	
	b Distinguish incineration and pyrolysis. OR												L		UIVI	
4	Ex	plain abou	t bioma	ass con	versio	n tech							L	.1	12 M	
							UNI	T-III								
5		Draw a flo mass.	ow cha	art for	energy	y cons	servati	on rou	ites ar	nd pro	ducts	from b	oio L	.2	4M	
	b	Explain up	odraft (Gasifier	with	neat s	ketch.						Ι	.1	8M	
								R								
6	Explain in detail about fluidised bed Gasifier with neat sketch and what are the advantages of fluidised bed Gasifier?												are I	_1	12M	
7	UNIT-IV a The following data are given for a family biogas digester suitable for the													2	CM	
7		output of matter con of burner methane =	five co sumed is 70	ws; the per da %, me	e reten y= 2 l ethane	ntion t kg, bic prop	time is ogas y	s 30 d ield is	ays, te 0.24 1	emperation m ³ /kg.	ature . The o	32°C, c efficien	lry Icy	_3	6M	
		i) the volume of biogas digester														
		ii) The power availability from the digester														
	b	Discuss ad	advantages and disadvantages of floating drum type biogas plant.										t. I	_6	6M	
8		Write abou	it cito c	alaatia	n for	hiagon		R	muntion	n			т	.1	8 M	
0		Write abou Explain ab				-	*			11.				_1 _1	4 M	
	v	b Explain about materials used for biogas production.											TIVI			
9	a	a Explain screw type briquetting machine with neat diagram												.1	8M	
														_6	4M	
								R								
10		Explain bi Explain a briquetting	about	differe										_2 _1	6M 6M	

*** END ***

