

Vivekananda College of Engineering & Technology, Puttur
 [A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]
 Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

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CRM08

Rev 1.10

<ME>

<18/07/2022>

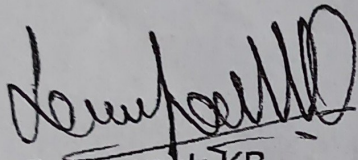
CONTINUOUS INTERNAL EVALUATION - 3

Dept:ME	Sem / Div: VI/ CS, EC, CV	Sub: Non Conventional Energy Sources	S Code:18ME651
Date:23/07/2022	Time: 9.30- 11.00AM	Max Marks: 50	Elective:Y

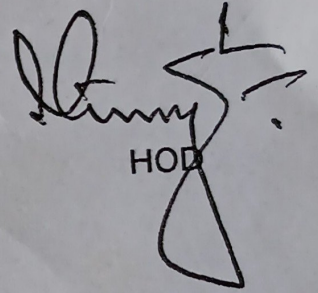
Note: Answer any 2 full questions, choosing one full question from each part.

QN	Questions	Marks	RBT	CO's
PART A				
1	a Explain briefly the parameters affecting the solar flat plate collector.	10	L2	CO2
	b Define the following w.r.t solar radiation geometry: latitude angel, declination angle, hour angel and solar azimuth angel.	8	L2	CO2
	c Explain the working of photovoltaic energy conversion.	7	L2	CO3
OR				
2	a Discuss with a neat sketch the working of solar pond.	10	L2	CO2
	b List the advantages and disadvantages of concentrating solar collector over flat plate collector.	8	L2	CO2
	c Discuss the I-V charateristics of PV cell.	7	L2	CO3
PART B				
3	a Explain with a neat sketch the working of floating drum type biogas plant.	10	L2	CO5
	b Describe with a neat sketch the production of hydrogen by electrolysis of water.	10	L2	CO5

	c List the advantages and disadvantages of geothermal plant.	5	L2	CO5
OR				
4	a Discuss the operational parameters of a biogas plant.	10	L2	CO5
	b Describe fixed drum type biogas plant with a neat sketch.	10	L2	CO5
	c Briefly explain energy plantation.	5	L2	CO5



Prepared by: Dr. Deepak KB



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