



SLOT:D1

SCHOOL OF MECHANICAL ENGINEERING

CONTINUOUS ASSESSMENT TEST - I - WINTERSEMESTER 2019-2020

Programme Name & Branch: B. Tech (BCL, BEM, BME)

Course Code: MEE1038

Course Name: Solar Photovoltaic System Design

Faculty Name(s):Dr.Y.Raja Sekhar

Class Number(s):VL2019205002043 Exam Duration: 90 minsMaximum Marks: 50

General instruction(s):

Attested Data sheet can be permitted

Assume suitable data where ever necessary

	Section – A $(4x 5 = 20 Marks)$	
Sl.No	Oward:	Course Outcome (CO)
1.	What do you understand by Energy and Intensity of Sun?	1
2. Jo	Explain the working principle of any one solar radiation measuring instrument IN 'VIT Question Papers' Today By Scanning The QR Or By Simply Searching It On Tele	gram App.
3.	Explain the physics of solar photovoltaic cell	2
4.	Brief on the materials used for manufacturing of Solar PV cells	2
	Section – B (3 x $10 = 30$ Marks)	
il.No.	Question	Course Outcome (CO)
	Find today's position of the sun at 10:30 hrs and 14:30 hrsfor New	1
	Delhi What is the importance of Altitude and Azimuth angles in deriving Sun-Path at a location? Elaborate on the importance of sun-path diagram in the design of photovoltaic systems	1
	Does incidence angle change with time, if so why? Find the incidence angle on a horizontal surface at Vellore (12.9833° N,79.1833° E) on July 1 st at 10.30 hrs on a horizontal surface facing due south	