Unit 12 - Week 11

ne	Assignment 11	
the portal		on 2019-10-16, 23:59 IST.
	As per our records you have not submitted this assignment.	
	1) Which of the following positions of PV cells will have the highest daily average insolation during solar months?	1 point
	Fixed horizontal Tracking along horizontal axis	
	Tracking along vertical axis Tracking along both horizontal and vertical axis	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: Tracking along both horizontal and vertical axis	
	The gap between the conduction band and valence band in a conductor	1 point
	○ Is very large	·
	Coincides Neither too large nor coincides	
	Bands are not present	
	No, the answer is incorrect. Score: 0	
lar Cells	Accepted Answers: Coincides	
c Cells	3) Doping is done in the PV cell	1 point
ing	For lowering the gap of valence band and conduction band	
es and the	To ensure continuous conduction of electrons	
cess	To increase solar insolation	
ıg	None of the above	
9	No, the answer is incorrect.	
	Score: 0 Accepted Answers:	
44	To ensure continuous conduction of electrons	
11	4) For V mP = 40 V imP = 4 A, calculate the efficiency at maximum Power condition for a PV panel of area 1.4 m ² and Incident	radiation intensity being 850W/m²
		radiation intensity being 65047/11
	No, the answer is incorrect.	
	Score: 0 Accepted Answers:	
	(Type: Range) 10,15	
	(Type: Range) 0.1,0.15	
		1 point
	5) A PV module is having K=1, I=800W/m², τ=0.85, α=0.8, U=2W/m² °C, T cell =55 and T _{ambient} =28, calculate the electric po	ower generated in W from heat
	balance equation.	and gonerated in 11 hour hour
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	(Type: Range) 480,500	
		1 point
	6) Given the normal incident radiation is 700 W/m ² , the transmissivity of cover and absorptivity of absorber surface being 0.8	5 and 0.93 respectively, the mass
	flow rate of water through the collector as 0.1kg/s, specific heat of water as 4.2 kJ/kg K, calculate the useful heat available in W,	when conduction boot loss now

(Type: Range) 4650,4750 1 point 7) What is the LEED rating for energy cost saving of 21% in an existing building through whole building energy simulation? 1 point **5 6 7** 8 No, the answer is incorrect. Score: 0

Accepted Answers:

No, the answer is incorrect. Score: 0

Accepted Answers:

8) What are the maximum points given by LEED for on site production of renewable energy? \bigcirc 1

1 point

 \bigcirc 3

No, the answer is incorrect. Score: 0

Accepted Answers: