Reg. No.:						

Question Paper Code: U8364

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023

One credit

Electrical and Electronics Engineering

21UEE864 - SOLAR PHOTO VOLTAIC

(Regulations 2021)

Duration: 1.30 Hours Maximum: 50 Marks

Answer ALL Questions

		This wor The Questions					
		PART A - $(5 \times 2 = 10 \text{ Marks})$					
1.	Explain the Term "Photovoltaic Effect".						
2.	Give a Block Diagram of a PV System which is designed to supply power to the load during non – sunshine hours.						
3.	What is meant by BOS in grid connected PV system?						
4.	What are the conditions for synchronizing PV inverters with the grid?						
5.	What are hot spots in a PV Module?						
		$PART - B (2 \times 20 = 40 \text{ Marks})$					
6.	(a)	Elucidate the structure and working of solar cells with neat diagram.	CO1 - U	(20)			
		OR					
	(b)	Explain the types, properties & behavior of solar cells.	CO1 - U	(20)			
7.	(a)	Give the block diagram of Stand alone PV system . Briefly discuss any one PV scheme.	CO2 - U	(20)			
		OR					

(b) Analyze the DC and AC applications of standalone PV systems. CO2 - U (20)