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Question Paper Code: 58364

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

One credit

Electrical and Electronics Engineering

15UEE864- SOLAR PHOTOVOLTAIC TECHNOLOGY

(Regulation 2015)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART – A (5 x 2= 10 Marks)

1. What is a Cell Module and Array? CO1- R
2. What are hot spots in a PV Module ? CO1 -R
3. Compare primary and secondary cell. CO2 -U
4. Give a Block Diagram of a PV System which is designed to supply power to the load during non – sunshine hours. CO2-U
5. What are the conditions for synchronizing PV inverters with the grid? CO3-U

PART – B (2 x 20= 40 Marks)

6. (a) Explain in detail about design of solar cell & load estimation CO1- Ana (20)
Or
(b) Elucidate the structure and working of solar cells with neat diagram CO1- Ana (20)
7. (a) Brief discussion or detail about any one application of Grid connected PV system CO3 -U (20)
Or
(b) Detail what are the essential component in Grid connected PV systems with diagrams CO3- U (20)

