

Reg. No. :

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Question Paper Code: 98763

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

One credit

Mechanical Engineering

19UME863- Solar Energy

(Regulations 2019)

(Common to All branches)

Duration: 1.30 minutes

Maximum: 50 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

1. What is energy and specify the types of energy? CO1- U
2. What are all the energy alternatives available? CO1- U
3. List any four solar energy collection devices. CO1- U
4. What do you mean by renewable energy sources CO1- U
5. What is solar bond? CO2- U
6. How power plant works? CO2- U
7. How solar cooker works? CO2- U
8. How solar still works? CO2- U
9. How solar energy used in agriculture? CO3- U
10. What are all the advances in solar energy? CO3- U

PART – B (3 x 10= 30Marks)

11. (a) Explain in detail how the solar energy is converted in to useful electrical energy CO1-U (10)
Or
(b) Classify the devices for solar energy collection units and explain. CO1-U (10)
12. (a) Explain with neat sketch about solar power plant CO2-U (10)
Or
(b) Explain in detail about solar air conditioning CO2-U (10)

- 13 (a) Summarize the developments in solar energy CO1-U (10)
Or
(b) Illustrate the economic analysis of solar energy in detail. CO1-U (10)