

Reg. No. :

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**Question Paper Code: 98763**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2025

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 do you mean by renewable energy sources CO1- R
2. What do you mean by non-renewable energy sources CO1- R
3. List some of the economic analysis of solar energy. CO1- R
4. List some future of solar energy. CO1- R
5. What is solar bond? CO2- R
6. How power plant works? CO2- R
7. How solar cooker works? CO2- R
8. How solar still works? CO2- R
9. How solar energy used in agriculture? CO3- R
10. What are all the advances in solar energy? CO3- R

PART – B (3 x 10= 30 Marks)

11. (a) What are all the energy sources available and how it is useful to earth? CO1-U (10)
- Or
- (b) Classify the devices for solar energy collection and explain. CO1-U (10)

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|-----|-----|---|-------|------|
| 12. | (a) | Explain in detail about solar refrigeration                 | CO2-U | (10) |
|     |     | Or  |       |      |
|     | (b) | Explain with neat diagram about Solar cooker and soar still | CO2-U | (10) |
| 13  | (a) | Summarize the future of solar energy with some case studies | CO1-U | (10) |
|     |     | Or  |       |      |
|     | (b) | Summarize the developments in solar energy in agriculture.  | CO1-U | (10) |