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Total No. of Questions: 09

B.Tech. (Ind. Engg. & Mgt. (Spl. in TQM))PT (Sem.-7)

ENERGY MANAGEMENT

Subject Code : IEM-755 M.Code : 71702

Time: 3 Hrs. Max. Marks: 40

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt All EIGHT Questions from SECTION-A carrying TWO marks each.
- 2. Attempt any SIX questions out of EIGHT from SECTION-B carrying FOUR marks each.

SECTION-A

1. Answer briefly:

- a. How does energy use affect the environment?
- b. What are limitations of photovoltaic solar energy conversion?
- c. What is requirement of energy management?
- d. What is load distribution management?
- e. How energy can be saved in HVAC system?
- f. What is waste heat recovery system?
- g. What are limitations of geothermal energy resources?
- h. What is life cycle costing?

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SECTION-B

- 2. Explain the construction and working of concentrating solar collectors.
- 3. Explain electricity demand management strategies.
- 4. Explain different methods of energy saving during different mechanical processes.
- 5 Explain methods of hydrogen production and storage.
- 6. Explain advantages of renewable energy systems.
- 7. Explain different methods to store energy.
- 8. Explain different categories of HVAC system.
- 9 Explain the need and methodology of energy audit.

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NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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