

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

Question Bank for UT-1

Sub-AEM (316364)

Course- ME6K

Unit - I Energy Scenario and Audit

2 Marks Question

- Q.1 What are the types of energies.
- Q.2 What are examples renewable and non-renewable energy.
- Q.3 Define energy pricing, energy security,
- Q.4 Define Energy audits.
- Q.5 State energy units and conversion.
- Q.6 State the Instruments and metering for Energy audit.

4 Marks Question

- Q.1 Explain National Action Plan on Climate Change (NAPCC).
- Q.2 Explain types of energy audit and methodology.
- Q.3 Explain Key factors affecting energy pricing..
- Q.4 Explain why an energy audit is needed.
- Q.5 Explain Electrical load management.
- Q.6 State Selection criteria of Instruments.
- Q.7 Explain ISO 50001 and 50002

Unit - II Energy Management and Conservation

2 Marks Question

- Q.1 Define energy management.
- Q.2 State objectives of Energy Management.
- Q.3 State Need of Energy Conservation.
- Q.4 Define energy Monitoring and Targeting.
- Q.5 Draw Sankey Diagram.

4 Marks Question

- Q.1 Explain energy conservation act 2001.
- Q.2 what is SEC state its Importance.
- Q.3 Explain elements of Energy Monitoring and Targeting.
- Q.4 Explain Energy conservation in Mechanical systems.
- Q.5 Explain Energy conservation in Electrical systems.

Unit - III Direct use of Solar Energy

2 Marks Question

- Q.1 What is solar thermal system
- Q.2 State Applications of solar energy.

4 Marks Question

- Q.1 Explain Flat plate collectors.
- Q.2 Explain parabolic collectors.
- Q.3 Explain solar dryers.
- Q.4 Explain Design Considerations in solar water heating system.