

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.