

(Following Paper ID and Roll No. to be filled in your Answer Books)

**PAPER ID :**

**Roll No.**

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**B.TECH.**

**Theory Examination (Semester-VI) 2015-16**

**POWER THEFT & ENERGY MANAGEMENT**

**Time : 3 Hours**

**Max. Marks : 100**

**SECTION-A**

Q.1 Attempt all parts. Write answer of each part in short.

(2 x 10=20)

- Define Harmonics. How can you reduce harmonics in power flow?
- Propose your view to control the power theft.
- What are the possibilities are there to stop the aluminium disc rotation in energy meter, while power being continuously consumed?
- What is the use of 'limit switch' in power theft?
- What is tempering?
- Define all-day efficiency.
- What do you understand by energy audit?
- Define the term energy management.
- Compare the Lamp characteristics of CFL and Fluorescent bulbs.
- What do you meant by DSM strategy?

**SECTION-B**

Q.2 Attempt any 5 questions from this section.

(10 x 5=50)

- Write a Detailed note on power theft in India.
- What is the Menace of power theft and how it can be avoided? Also explain control over power theft.
- Explain the power theft in voltage circuit with neat sketch.
- Explain how the power theft takes place in various electronic meters.
- Write short note on Energy audit Policies.
- Explain how instrumentation is helpful in energy management.
- Discuss the scope and concept of Demand Side Management.
- How will you solve a problem of increased energy demand, Evaluate the benefits of energy conservation as compared to increasing the generation capacity

**SECTION-C**

Note: Attempt any 2 questions from this section.

(15 x 2=30)

- Frame your own policies to implement a Demand side management and fulfill the customer need.
  - Explain how energy system efficiency is important in energy management.
- Q.4 Illustrate the national experiences with Demand side management.
- Q.5 Discuss the Various aspects of energy conservation in detail. Also explain how modern technologies are useful in energy conservation.

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