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(Following Paper ID and Roll No. to be filled in your A	Answer Book)
PAPER ID : 121858	
Poll No.	

B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15 ENERGY EFFICIENCY & CONSERVATION

Time: 3 Hours]

[Total Marks: 100

1 Attempt any FOUR parts :

5×4=20

- Discuss about the energy conservation planning.
- Write a note on the concept of demand side management and its scope.
- Brief note on the voltage control in distribution system.
- Describe about the protection of capacitors and switching in distribution system.
- e) What do you understand from the term load scheduling and shifting?
- Give a technical note on principle of energy conservation.
- 2 Attempt any TWO parts:

10×2=20

- Enumerate in detail about the energy conservation in electrical generation, transmission and distribution.
- b) Illustrate about the energy conservation legislation.
- State the aim of energy audit and the strategy of energy audit.

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3 Attempt any TWO parts :

10×2=20

- Describe in detail about the national and international experiences with Demand Side Management.
- State the implementation of Demand Side Management and its application.
- Narrate the evolution of Demand Side Management in detail.

4 Attempt any TWO parts :

10×2≃20

- Discuss the concept of voltage and reactive power in distribution systems. Explain how the shortage of reactive power in distribution systems is compensated by Static Var Compensators.
- Write about Capacitor banks and inductor banks used in distribution systems? Explain their advantages and limitations.
- Describe the methods of voltage and reactive power control in distribution systems. Also mention its importance in power system environments.

5 Attempt any TWO parts:

10×2=20

- a) Illustrate about the UPS selection, installation operation and maintenance.
- b) Discuss about the following:
 - i. Motor efficiency testing
 - ii. Motor Speed Control.
- Write a detailed note on Indian Electricity Act 1956.

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