Printed Pages—2   **EEE054**

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

PAPER ID : 2901	Roll No.										

B.Tech.

(SEM. VIII) EVEN THEORY EXAMINATION 2012-13

ENERGY EFFICIENCY & CONSERVATION

Time : 3 Hours   *Total Marks : 100*

Note :– Attempt **all** questions.

1. Attempt any **two** of the following :   **(10×2=20)**

    (a) Differentiate between the load pattern of small scale and large scale industries. What measures are taken to conserve energy in a large scale industry ?

    (b) Enumerate several measures of conserving energy in a thermal generation plant. Discuss one of them in detail.

    (c) What do you know about legislation related to energy conservation in India ?

2. Attempt any **two** of the following :   **(15×2=30)**

    (a) Briefly describe the concept of Demand Side Management.

    (b) Name various strategies used for Demand Side Management and discuss any one of them in detail.

    (c) Write a brief note on the advance technologies available worldwide for demand side management. Can they be applied in India with special reference to their acceptance by consumers ?

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3. Attempt any **two** of the following :   (10×2=20)

    (a) Discuss about improvement of power factor.

    (b) How is a capacitor bank designed in terms of units and ratings ?

    (c) Discuss about the application of switched capacitors.

4. Attempt any **three** of the following :   (10×3=30)

    (a) How is the UPS selection for a particular use ?

    (b) Discuss the special features of Indian Electricity Act.

    (c) What do you understand by energy efficient motors ?

    (d) How would you incorporate energy efficient features in lighting loads ?

    (e) How is energy saved by load scheduling ?

    (f) Discuss about the energy efficient way of controlling the speed of motor.

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