UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2020

Program: MBA (Power Management)   Semester – III
Subject (Course): Energy Conservation and Audit   Max. Marks: 100
Course Code   : PIPM 8004   Duration   : 3 Hrs
No. of page/s: 2

Section – A (5 marks * 6 = 30 Marks)

Briefly explain the following citing an example: (CO1)

1. Energy Efficiency

2. Energy Conservation

3. Star Rating of Appliances

4. Time-of-Day Metering

5. Energy Intensive Industry (as per Energy Conservation Act 2001)

6. Increasing Block Rate Schedule (Tariff Structure)

Section – B (10 marks * 5 = 50 Marks)

Answer all questions in this section: (CO2)

1. Discuss the functions of BEE.

2. Citing one example for each, explain the difference between Supply Side Management and Demand Side Management.

3. One unit of electrical energy saved through energy efficiency at consumer end is equivalent to more than three units of energy contributed to the nation. Justify using appropriate values.

4. Briefly explain the three phases involved in an Energy Audit.

5. PM-KUSUM scheme can help Government of India achieve many objectives. Justify.

Section – C (20 marks * 1 = 20 Marks)

Answer any ONE question from this section: (CO3)

Discuss any four cost components that are generally used in electricity bills applicable to various consumer classes. In addition, briefly explain that even if there is no electricity consumption by a residential consumer during a period, electricity bill of the consumer can't be zero for the same period.

OR

Since last few years, power distribution arm of Tata Group (Tata Power – DDL) has been offering discounts/incentives to its consumers for buying new or replacing old non-star rated ACs with BEE 5-Star rated AC. Similarly, many power distribution companies are promoting adoption of efficient lighting systems and renewable energy technologies. Citing few examples, discuss the strategy of the distribution companies in promoting such schemes.