

Roll No: -----



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Program: MBA (Power Management)  
Subject (Course): Energy Conservation and Audit  
Course Code : PIPM 8004  
No. of page/s: 2

Semester – III  
Max. Marks: 100  
Duration : 3 Hrs

---

### Section – A (2 marks \* 10 = 20 Marks)

Fill in the Blanks:

(CO1)

1. As per Energy Conservation Act 2001, the following are five energy intensive industries:
  - a) \_\_\_\_\_
  - b) \_\_\_\_\_
  - c) \_\_\_\_\_
  - d) \_\_\_\_\_
  - e) \_\_\_\_\_
2. List two components of electricity bill under which a residential consumer is charged:
  - a) \_\_\_\_\_
  - b) \_\_\_\_\_
3. In order to reduce demand supply gap of electricity, the advantages of energy management over capacity addition include \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

### Section – B (5 marks \* 4 = 20 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

**Section – C (10 marks \* 3 = 30 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.

**Section – D (15 marks \* 2 = 30 Marks)**

**Answer all questions in this section:**

**(CO3)**

1. Briefly explain the three phases involved in an Energy Audit.
  2. 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.
-