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BEE-002

**ADVANCED CERTIFICATE IN POWER
DISTRIBUTION MANAGEMENT
(ACPDM)**

Term-End Examination

June, 2020

**BEE-002 : ENERGY MANAGEMENT AND IT
APPLICATION**

Time : 3 Hours

Maximum Marks : 100

*Note : (i) The question paper has three Parts :
Part-I, Part -II and Part-III.*

*(ii) Answer the questions as indicated in
each Part.*

*(iii) Question No. 1 is compulsory. All
questions should be answered in
English only. Marks are shown against
each question.*

P. T. O.

Part—I

1. Give full forms of the following abbreviations :

10 × 1 = 10

- (a) GPS
- (b) CIN
- (c) CDMA
- (d) IVRS
- (e) HVDS
- (f) SCADA
- (g) GSM
- (h) AMR
- (i) CRM
- (j) DSM

2. Attempt any *two* of the following questions :

2 × 5 = 10

- (a) What is the significance of EC Act, 2001 ?

- (b) Define kWh (kilowatt hour) and its significance.
- (c) What is load factor and what is its significance ?

Part—II

Attempt any *five* questions : 5 × 10 = 50

3. Describe the main features of LEAD.
4. What are the benefits of Energy Audit for Power Distribution Utility ?
5. Discuss the role of DSM for power utilities, consumers and society.
6. Discuss the measures that should be taken into consideration for preventing and handling cases of electrical shock.
7. What are the techniques used for meter reading ?
8. Discuss the changes being brought about by the use of IT in the area of electricity business.
9. What is ERP ? Discuss in brief the uses of ERP in power distribution utility.

Part—III

Attempt any *two* questions : $2 \times 15 = 30$

10. Explain the earthing requirements in a substation.
11. What steps can power utilities take for effective DSM on the consumer side ?
12. List the various steps in the process of meter reading by Hand Held Meter (HHM) and Automatic Meter Reading (AMR).