

No. of Printed Pages : 4

BEE-002

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

Term-End Examination

June, 2023

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

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) *All questions should be answered in English only.*
-
-

Part—I

1. Give full forms of the following abbreviations : 10×1=10
- (a) WAN

P. T. O.

- (b) WWW
- (c) RTU
- (d) SLD
- (e) MIS
- (f) ATM
- (g) GDP
- (h) ERP
- (i) ABT
- (j) MRI

Part—II

2. Attempt any *ten* of the following questions : 10×7=70
- (a) Explain the need for a Disaster Management Plan for a power utility. Outline its objectives.
 - (b) Discuss the measures taken for preventing and handling cases of electric shock.
 - (c) State the objectives of Energy Conservation in Building Codes Program.

- (d) Explain the ESCO route to DSM.
- (e) What are various actions recommended for reducing technical losses under energy audit program ?
- (f) Differentiate between Step potential and Touch potential.
- (g) What are the barriers to DSM ?
- (h) Explain how IT can help in reducing AT and C losses and improving the efficiency of power distribution. Give some examples.
- (i) What are the problems encountered in energy accounting ?
- (j) Explain the need for zoning for natural disasters. What zoning schemes are in practice for earthquakes ?
- (k) What does energy audit report contain ?

Part-III

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

- (a) Explain the major causes for fire outbreaks in a power utility. What techniques can be used for handling and preventing such fire causes.

- (b) What IT applications can be used by the utilities for consumer satisfaction ? Explain by giving suitable examples.

- (c) What do you understand by software based distribution network planning and analysis ? What are the advantages of integrating it with GIS ?