

No. of Printed Pages : 3

BEE-002

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

Term-End Examination

December, 2024

**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) RTU

- (b) ERS
- (c) ERC
- (d) AMR
- (e) ERP
- (f) BEE
- (g) DSM
- (h) TOD
- (i) ABT
- (j) MIS

Part—II

2. Attempt any ***ten*** of the following questions : 10×7=70

- (a) What is global warming ? How is our energy wage influencing it ?
- (b) Explain the earthing requirements in a substation.
- (c) Discuss the measures taken for preventing and handling cases of electric shock.
- (d) What is energy efficiency ? What are the benefits of improved energy efficiency ?
- (e) Mention the objectives of energy auditing.
- (f) What is ERP ? Discuss the benefits of using ERP in a power distribution utility.

[3]

- (g) Discuss the changes being brought about by the use of IT in the working of electrical businesses.
- (h) What is 'LEAP' ? Describe the main features of LEAP.
- (i) Explain the ESCO route to DSM.
- (j) Differentiate between step potential and touch potential.
- (k) What is spot billing ? Explain its advantages over traditional billing.

Part—III

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

2×10=20

- (a) Explain the major causes for *five* outbreaks in a power utility. What techniques can be used for handling and preventing such five causes ?
- (b) What is SCADA ? Discuss its usefulness for improving the operation of a power distribution utility.
- (c) List various steps in the process of meter reading by Hand Held Devices. Give a brief description of each step.

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