

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

Term-End Examination

December, 2025

**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) GHGs

(b) DTR

- (c) ESCO
- (d) PPE
- (e) DSM
- (f) BIS
- (g) RLDC
- (h) LEAP
- (i) GPS
- (j) MIS

Part-II

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

2. What is ERP ? Discuss the benefits of using ERP in power distribution utility.
3. Explain the earthing requirements in a substation.
4. What is ERS ? State its usefulness.

5. What immediate, medium and long-term strategies can be used for meeting the goal of clean energy for all ?
6. Explain the major causes for fire outbreaks in a power utility. What techniques can be used for handling and preventing such fires ?
7. Mention the objectives of energy auditing for utility.
8. Discuss the measures taken for preventing and handling cases of electric shock.
9. What are the major key areas of IT intervention in the Distribution Business ?
10. Discuss the benefits of DSM for power utilities, consumers and the society.
11. Differentiate between step potential and touch potential.
12. Explain the need for zoning for natural disasters. What zoning schemes are in practice for earthquakes ?

Part-III

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

13. What do you understand by software-based distribution network planning and analysis ? What are the advantages of integrating with GIS ?
14. List the various steps in the process of meter reading by Hand Held Devices. Give a brief description for each step.
15. What is SCADA ? Discuss its usefulness for improving the operation of a power distribution utility.

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