

No. of Printed Pages : 4

**BEE-002**

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

**Term-End Examination**

**December, 2022**

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

*Time : 3 Hours*

*Maximum Marks : 100*

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**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.*

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**P. T. O.**

**Part—I**

1. Give the full forms of the following abbreviations : 10×1=10

- (a) ERS
- (b) AMR
- (c) DTR
- (d) ESCO
- (e) SCADA
- (f) BEE
- (g) AT & C
- (h) CNG
- (i) CFL
- (j) ERC

**Part—II**

**Note :** Attempt any *ten* of the following questions.

10×7=70

- 2. Explain the earthing requirements of equipments in the substation.
- 3. Discuss the benefits of DSM for power utilities and the society.

4. Explain the major causes for fire outbreaks in a power utility. What techniques can be used for handling and preventing such fires ?
5. Describe the main features of LEAP.
6. What immediate, medium and long-term strategies can be adopted for meeting the goal of clean energy for all ?
7. Mention the objectives of energy auditing for utility.
8. Discuss the changes being brought about by the use of IT in the working of electrical business.
9. What is global warming ? How is our energy usage influencing it ?
10. What is spot billing ? Explain its advantages over traditional billing.
11. What is standards and labelling program ? Explain how can it help in effective DSM.
12. What is ERP ? Discuss the benefits of using ERP in a power distribution utility.

**Part—III**

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

2×10=20

13. Describe the first aid measures to help the victims of :
- (a) Electric shock
  - (b) Burns
  - (c) Heat stroke
14. Describe the benefits of the Geographic Information System (GIS) for managing the power distribution system.
15. What is SCADA ? Discuss its usefulness for improving the operation of a power distribution utility.