

No. of Printed Pages : 4

**BEE-001**

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

**Term-End Examination**

**June, 2024**

**BEE-001 : POWER DISTRIBUTION SECTOR**

*Time : 3 Hours*

*Maximum Marks : 100*

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***Note :** The paper has three Sections. Attempt all  
Sections.*

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**Section—A**

***Note :** Attempt *all* questions.*

1. Fill in the blanks from the choices given below :

10×1=10

(Cooling, CRM, grid, billing and collection,  
unity, bio-mass, ERC, pedestal, hot line  
maintenance, profit centre)

(a) ..... can be promoted as alternative  
fuel for power generation.

**P. T. O.**

- (b) The main function of ..... is evolving a policy for setting the tariff for purchase and sale of electricity including the retail tariff to be paid by the end consumer.
- (c) Gram panchayats, franchisees can be used for .....
- (d) Work performed on transformers and distribution lines while they are energised and in services is called .....
- (e) ..... is not just a technology, rather, a holistic approach of an organisation for dealing with its customers.
- (f) Transformer oil serves the dual purpose of insulation and .....
- (g) The insulators in use at substation are post insulators of ..... type.
- (h) Monitoring the parameters of the ..... in the prime real time function of the load dispatch centre.
- (i) Power factor in a pure resistive circuit in .....

- (j) Electricity Act, 2003 had declared electricity as an industry and all streams of electricity sector as individual .....

### Section—B

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

2. Discuss short term measures for technical loss reduction.
3. Explain in different types of benchmarking with examples.
4. Which tests can be performed on DTRs before and immediately after installation ?
5. Distinguish between T & D and AT & C losses.
6. What equipments are required for construction of an overhead line ?
7. Explain hot line maintenance techniques and tools.
8. What does SEM do ?
9. Why Appellate Tribunal has been created ?

10. Suggest ways to reduce distribution transformer failure rate in your utility.
11. Outline the obligations placed on consumers by the reforms process in the power sector.
12. What do you understand by load scheduling and non-scheduled interchange ?

### Section—C

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

13. Discuss the salient features of Electricity Act, 2003. What are their implications in power distribution sector ?
14. Discuss how the utilities can carry out revenue protection through use of innovative metering, billing and collection techniques.
15. List the problems prevalent in the power generation, transmission and distribution sector that impact satisfactory power supply in the areas covered by your utility.