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**BEE-001**

**ADVANCED CERTIFICATE IN POWER  
DISTRIBUTION MANAGEMENT**

**(ACPDM)**

**Term-End Examination**

**December, 2021**

**BEE-001 : POWER DISTRIBUTION SECTOR**

*Time : 3 Hours*

*Maximum Marks : 100*

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

**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, ERC, smart card, unity, profit centres; tariff, benchmarking )

(a) Power factor in a pure resistive circuit is .....

- (b) There is political interference in setting of ..... which results in substantial cross subsidization in retail tariff amongst various consumer categories.
- (c) Electricity Act, 2003 had declared electricity as an industry and all streams of the electricity sector as individual .....
- (d) Monitoring the parameters of the ..... is the prime real time function of the load dispatch centre.
- (e) Transformer oil serves the dual purpose of insulation and .....
- (f) ..... can be considered as a competitive tool for building competitive advantage.
- (g) .....is not just a technology, rather, a holistic approach of an organisation for dealing with its customers.
- (h) The main function of ..... is evolving a policy for setting the tariff for purchase

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and sale of electricity including the retail tariff to be paid by the end customer.

- (i) Gram Panchayats, franchisees could be used for .....
- (j) Prepaid metering is a system whereby consumers purchase electricity through a .....

### Section—B

**Note :** Attempt any *ten* questions.  $10 \times 7 = 70$

2. Discuss the salient features of the Electricity Act, 2003.
3. How does the National Electricity Policy help in realising the aims and objectives of Electricity Act, 2003 ?
4. What is Load Balancing ? How can it be achieved ?
5. Make a list of substation equipments.
6. Outline the obligations placed on the consumers by the power reforms process in the power distribution sector.

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7. What are the activities involved in distribution system planning ?
8. Explain hotline maintenance techniques and tools.
9. Suggest ways to reduce distribution transformer failure rate in your utility.
10. Explain the different types of benchmarking with the help of examples.
11. Distinguish between T & D and AT & C losses.
12. Explain the metering techniques used for LT and HT consumer metering.

### Section—C

**Note :** Attempt any *two* questions.  $2 \times 10 = 20$

13. What are the different methods of theft and pilferage of energy ?
14. How can CRM be applied in the organisation in the power business sector ?
15. Explain the properties of Key Performance Indicator (KPI). Identify the key performance indicators (KPIs) for supply availability and reliability.

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