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BEE-001

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

Term-End Examination

December, 2020

BEE-001 : POWER DISTRIBUTION SECTOR

Time : 3 Hours

Maximum Marks : 100

***Note :** This paper has two Sections. Attempt both Sections. Answer the questions in English language only.*

Section—A

***Note :** Attempt **all** questions. All questions carry equal marks. 10×3=30*

1. How are T & D losses defined ?
2. What do you mean by 'franchisee' as per Electricity Act, 2003 ?

3. Write main provisions of the Act on Energy Conservation Building Codes (ECBC).
4. Describe the role of CERC in tariff setting.
5. What is the importance of load balancing ?
6. What are the advantages of Power Factor (PF) improvement by capacitor addition ?
7. List the main components required for an overhead line.
8. Briefly explain the concept of benchmarking.
9. What are the various available technology options for metering ?
10. How is earthing arrangement made in a substation ?

Section—B

Note : Attempt any **ten** questions. All questions carry equal marks. 10×7=70

11. What are the main factor underlying technical and commercial losses ?

12. How does the National Electricity Policy help in realising the aims and objectives of Electricity Act, 2003 ?
13. Describe various components of the power distribution system.
14. What is the significance of Grid Management ?
Who has the responsibility of Grid Management in your State and your utility ?
15. What are the activities involved in Distribution System Planning ?
16. Give reasons why underground cabling is being opted for in urban areas. What are its advantages ?
17. Discuss the measures to avoid Distribution transformer failures at Operation and Maintenance level.
18. Explain proposed KPIs for voltage quality standards.
19. Discuss the metering techniques used for LT Consumer Metering.

20. Describe demand side management and installation of prepayment meters as long-term measures for technical loss reduction.
21. Discuss the legal provisions as per the Electricity Act, 2003 for dealing with theft/pilferage of energy.
22. Outline the measures required for improving the killing and collection in power distribution utilities.