

**ADVANCED CERTIFICATE IN POWER
DISTRIBUTION MANAGEMENT**

Term-End Examination

June, 2021

BEE-001 : POWER DISTRIBUTION SECTOR

Time : 3 hours

Maximum Marks : 100

Note : *This paper has **three** sections. Attempt **all** sections.
Answer the questions in English language only.*

SECTION A

*Attempt **all** questions. All questions carry equal marks. $10 \times 3 = 30$*

1. Briefly describe Privatization and Restructuring of Distribution Utilities.
2. What is the role of the Bureau of Energy Efficiency ?
3. Outline the primary responsibilities of the Central Regulatory Commission.
4. What are the important features of power trading ?

5. Give some tips to operate transformers near balanced loading.
6. What does reactive power (KVAR) control represent ?
7. Briefly describe instrument transformers (current and voltage transformers).
8. What are the factors that influence the selection of underground cable ?
9. Classify different types of benchmarking.
10. What are the different methods of theft and pilferage of energy ?

SECTION B

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

11. Discuss the salient features of the Electricity Act, 2003.
12. Spell out the implications for the power distribution reforms in your utility/area.
13. What is HVDS ? Outline its advantages over LT system.
14. What do you understand by Load Scheduling and Unscheduled Interchanges ?
15. List the equipment being used for the construction of 66-33/11 KV substation.
16. Which tests can be performed on DTRs before and immediately after installation ?
17. Elaborate the important properties required for key performance indicators.
18. Discuss the 7 QC tools and their importance in the organization for performance improvement.
19. Distinguish between T & D losses and AT & C losses.

- 20.** What factors contribute to high commercial losses ?
 - 21.** Explain the short-term and long-term measures for technical loss reduction.
 - 22.** Explain the metering techniques used for HT consumer metering.
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