

**ADVANCED CERTIFICATE IN POWER  
DISTRIBUTION MANAGEMENT**

**Term-End Examination**

00583

**December, 2018**

**BEE-001 : POWER DISTRIBUTION SECTOR**

*Time : 3 hours*

*Maximum Marks : 100*

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

**SECTION A**

*Attempt all questions. All questions carry equal marks.*

*10×4=40*

1. How are T & D losses defined ?
2. Explain the term Open Access.
3. Explain the different types of benchmarking with the help of examples.
4. Distinguish between current and voltage transformers.
5. What do you understand by load scheduling and unscheduled interchanges ?

6. Which test can be performed on DTR's before and immediately after installation ?
7. What is the role of Critical Success Factors (CSF's) in performance evaluation ?
8. Explain the KPI's for supply availability and reliability.
9. Discuss the HVDS system.
10. What are the main advantages of having grid ?

## SECTION B

*Attempt any ten questions. All questions carry equal marks.*

*10×6=60*

11. Explain the live line maintenance techniques.
12. Discuss the role of CERC in tariff setting.
13. What factors contribute to T & D losses in urban areas ?
14. Describe the measures that can be taken to reduce technical losses.
15. What are the different methods of theft and pilferage of energy ?
16. Discuss the metering techniques for LT and HT metering.
17. Elaborate your understanding of voltage quality standard.
18. What is Balanced Score Card (BSC) ? Discuss the process of managing strategy through BSC.
19. Discuss the ways in which your power distribution utility could benefit from these acts and policies to improve its performance.

- 20.** What do you understand by aggregate technical and commercial losses ?
  - 21.** Outline the aims and objectives of the Electricity Act, 2003.
  - 22.** Describe the equipment required for the construction of 11/0.4 kV distribution substation.
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