

**ADVANCED CERTIFICATE IN POWER
DISTRIBUTION MANAGEMENT**

Term-End Examination

June, 2019

01152

BEE-001 : POWER DISTRIBUTION SECTOR

Time : 3 hours

Maximum Marks : 100

*Note : Attempt any **twenty** questions. All questions carry equal marks. Answer the questions in English language only.*

*Attempt any **twenty** questions.*

20×5=100

1. How does the National Electricity Policy help in realising the aims and objectives of Electricity Act, 2003 ?
2. Define the term SAIFI. What is it used for ?
3. A trivector meter consists of three different elements. Identify the elements.
4. What is global warming ?
5. Describe the equipment required for the construction of an 11 kV/0.4 kV distribution substation.

6. Which tests can be performed on DTR's before and immediately after installation ?
7. Describe the various measures that can be taken for reducing commercial losses.
8. What configuration of feeder networks can be used in distribution system ?
9. Discuss measures to avoid DTR failures at the operation and maintenance level.
10. What criteria are used for selection of underground cables ?
11. Briefly explain the features of meters used for HT metering.
12. Draw a plan for educating the public and the town planners about energy conservation.
13. Explain KPIs for supply availability and reliability.
14. What are the activities involved in Distribution System Planning ?
15. What do you understand by load scheduled and unscheduled interchanges ?

16. Explain the impact of LT/HT on losses and voltage.
 17. What is load balancing? How can it be achieved?
 18. List the different types of underground cables in use today.
 19. Suggest the ways to reduce DTR failure rate of any utility.
 20. Explain how franchisees can be used for commercial loss reduction.
 21. What are Aggregate Technical and Commercial Losses?
 22. What does Grid Management involve?
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