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BEE-001

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

**Term-End Examination
December, 2024**

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

(National Electricity; Grid; license; Breakdown Voltage; Electricity Act; commercial loss; conductor; emission; performance; billing and collection)

- (a) As per time schedule specified in the Code, the load scheduling is done one day before the day ahead.

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- (b) test is recommended to ensure breakdown strength of transformer oil.
- (c) The, 2003 has declared electricity as industry.
- (d) Development of strong grid is important focus of policy.
- (e) Open access in transmission means freedom to the to procure power from any source.
- (f) Accurate metering, efficient billing and prompt collection can reduce the
- (g) Clean Development Mechanism (CDM) is a system that would give industrialised countries credit for financing technologies in developing countries aimed at reducing
- (h) represents 30–50% of the installed cost of the line.
- (i) benchmarking is also known as competitive benchmarking.
- (j) Gram Panchayats, franchisees could be used for

Section—B

Note : Attempt any *ten* questions.

10×7=70

2. List the problems prevalent in the power distribution sectors that impact satisfactory power supply.
3. How can the provisions of Electricity Act, 2003 help in achieving challenges facing the power sector ?
4. What are the objectives of the National Electricity Policy ?
5. Draw the evolving structure of electricity industry after the Electricity Act, 2003.
6. What is a feeder ? Compare the radial loop and cross loop network configurations.
7. What is the significance of the grid management ?
8. Explain the live line maintenance technique.
9. State the purpose of transformer testing. Draw the list of the tests to be carried out on a transformer before it is accepted by auditing.

10. Discuss the seven QC-tools and its importance in the organisation for performance improvement.
11. What does network reconfiguration involve ?
12. What factors contribute to high technical losses ?
13. Discuss the HVDS system.
14. Explain how franchisees can be used for commercial loss reduction.

Section—C

Note : Attempt any *two* questions. 10×2=20

15. Describe the various measures that can be taken for reducing commercial losses.
16. Discuss the various technological options available for energy meters.
17. Write an essay describing the overall scenario of the power sector in our country, include all three segments—generation, transmission and distribution.

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