

No. of Printed Pages : 4

**BEE-001**

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

**Term-End Examination**

**December, 2023**

**BEE-001 : POWER DISTRIBUTION SECTOR**

*Time : 3 Hours*

*Maximum Marks : 100*

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***Note :** The paper has three Sections. Attempt all  
Sections.*

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**Section—A**

***Note :** Attempt **all** questions.*

1. Fill in the blanks from the choices given below :

10×1=10

[Coal-fired; Bee; Energy Conservation Act (2001); National Tariff Policy; Padestal; biomass, electricity; Demand; unbalanced, Open access]

**P. T. O.**

- (a) As per the Electricity Act, 2003 ..... has notified the regulation on meters of electricity in the year 2006.
- (b) Most of the power generation in the country comes from ..... power stations.
- (c) Bureau of Energy Efficiency (BEE) has been set up under the Act .....
- (d) .....ensure availability of electricity to consumers at reasonable and competitive rates.
- (e) The post insulators in use at substation are ..... types.
- (f) ..... can be promoted as alternative fuel for power generation.
- (g) Prepaid metering is a system whereby consumers purchase ..... through smart meters.
- (h) If load on each phase of the transformer is not equal, it is called ..... loading of transformer.
- (i) ..... in a transmission means freedom to license to procure power from any source.
- (j) ..... meters measure kVA which combine reactive and active power.

**Section—B**

**Note :** Attempt any *ten* questions. 10×7=70

2. What do you understand by aggregate technical and commercial losses ?
3. Suggest ways in which your utility could embark on energy conservation efforts within the organisation.
4. Write the goals of the Electricity Act, 2003.
5. State the primary responsibilities of the Central Regulatory Commission.
6. Make the list of substation equipment.
7. What is the significance of the Grid Management ?
8. Distinguish between current and voltage transformers.
9. Explain different types of benchmarking.
10. Discuss the various approaches to the performance benchmarking through indicators.
11. Discuss the role of field level staff in containing AT & C losses.
12. Distinguish between T & D losses and AT & C losses.

13. Describe the various measures that can be taken for reducing commercial losses.
14. List the reasons for using underground cables. State the selection criteria and sizing of underground cable.

### Section—C

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

15. Discuss the various technological options, available for energy meters.
16. Discuss the role of Electricity Regulatory Commission on the policy of electricity power business.
17. Write the overall scenario of the power sector in our country, include all three segments generation, transmission and distribution.