BEE-001

ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT

Term-End Examination June, 2018

00203

BEE-001: POWER DISTRIBUTION SECTOR

Time: 3 hours Maximum Marks: 100

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

SECTION A

Attempt all questions.

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1.	Fill belov		he	blanks	from	the	choices	given	10
	(voltage regulation, insulator, transformer, switching, load despatch centre, cooling, tariffs, earthing, data collection, grid commercial losses, CRM, benchmarking)								
	(a) Transformer oil serves the dual purpose of insulation and								
	(b)	The	N	ational	Tariff	Poli	cy sets	broad	

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and distribution.

guidelines for the regulators for fixing

for generation, transmission

(c)	Regional Load Despatch Centre is responsible for real time operation of the regional grids, in consultation with all the players involved in operation.
(d)	Load forecasting process involves
(e)	The real time operation of the grid is managed by
(f)	An operational strategic framework is more relevant to apply in Indian power/electricity business systems.
(g)	Circuit breaker is a device.
(h)	not only improves the performance but also brings the value addition.
(i)	Accurate metering, efficient billing and prompt collection can reduce the
(j)	High voltage test is performed on

SECTION B

Attempt all questions.

 $10 \times 3 = 30$

- 2. What do you mean by wheeling charges?
- **3.** Briefly explain, energy accounting and energy audit.
- 4. What is reactive power control?
- 5. What is load balancing?
- **6.** What is a potential transformer?
- 7. What are the voltage quality standards?
- 8. What is the role of data mining in CRM network?
- 9. How can we reduce DTR failure rate in the utility?
- 10. What factors contribute to technical losses?
- 11. What is HVDS system?

SECTION C

Attempt any ten questions.

 $10 \times 6 = 60$

- 12. Discuss the salient features of The Electricity Act 2003.
- **13.** Why is underground cabling being opted for in urban areas? What are its advantages?
- **14.** What is the role of CERC?
- 15. What are the measures that can be taken to reduce technical losses?
- **16.** How can we improve billing and collection efficiency?
- 17. Explain the impact of LT/HT ratio on losses and voltage.
- 18. Explain seven quality tools (7QC tools) for power sector business improvement.
- 19. What is Energy Conservation Building Code?
- 20. What are the functions of State Electricity Regulatory Commission?
- 21. Describe the role of Critical Success Factors (CSF) in performance benchmarking.
- 22. What are the parameters for evaluation of OSM strategy?
- 23. What are the objectives of grid management?
- 24. Distinguish between CT and PT.