

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***M.E DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025***Second Semester**Power Systems Engineering***PS4204/PPST2424 – Restructured Power System***Regulations – 2021/2024***Duration : 3 Hrs****Maximum : 100 Marks****PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

Q.No	Questions	BLT	CO	Marks
1.	Compare consumer and supplier behavior.	L2	1	2
2.	State any four benefits in the competitive restructuring environment.	L1	1	2
3.	Define Congestion.	L1	2	2
4.	Recall the term ATC and write its importance.	L1	2	2
5.	Illustrate the role of LMP calculation.	L2	3	2
6.	What is meant by FTR?	L1	3	2
7.	List the types of ancillary services.	L1	4	2
8.	What is meant by composite pricing paradigm?	L2	4	2
9.	Define availability-based tariff.	L1	5	2
10.	Mention the key features of the Electricity act 2012.	L2	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11. a	Explain the structure and different entities in deregulated electricity market with necessary diagram.	L2	1	16
	Or			
b	Compare various market models with clear explanations.	L2	1	16
12. a	Explain the method of calculating ATC by Network response method with an example.	L3	2	16
	Or			
b	Explain in detail about inter zonal and intra zonal congestion management.	L3	2	16
13. a	Demonstrate ACOPF model for LMP calculation.	L3	3	16
	Or			
b	Explain about FTR and merchant transmission investment.	L3	3	16

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| 14. | a | Explain in details about voltage control and reactive power support devices. | L3 | 4 | 16 |
| | | Or | | | |
| | b | Illustrate the basic principle of marginal transmission pricing paradigm. | L3 | 4 | 16 |
| 15. | a | Explain various players involved in the Indian power sector. | L3 | 5 | 16 |
| | | Or | | | |
| | b | Explain the framework of Indian power sector with neat sketch. | L3 | 5 | 16 |