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	Reg. No. :
	Question Paper Code: 50514
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023
	Seventh Semester
	Electrical and Electronics Engineering
	EE 8010 – POWER SYSTEMS TRANSIENTS
	(Regulations 2017)
	Time: Three hours Maximum: 100 marks
	Answer ALL questions.
2	PART A — $(10 \times 2 = 20 \text{ marks})$
	1. Give example for internal sources for transients.
	2. Classify transients based on its frequency.
	3. Define load switching. 4. Define RRRV.
	5. List out any two causes of over voltages.
	6. Define protective angle.
	7. Give the specifications of a travelling wave.
	8. Draw a neat sketch of standing waves.
	9. Draw the EMTP model of transmission line.
	10. What are the advantages of EMTP software packages?
	PART B — (5 × 13 = 65 marks)
	11. (a) Discuss the various types of power system transients.
	Or .
	(b) Explain the Transients associated with switching an LC circuit with sine wave excitation.

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