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[M19 PS1102]

I M. Tech I Semester (R19) Regular Examinations
POWER SYSTEM DYNAMICS AND STABILITY
(ELECTRICAL & ELECTRONICS ENGINEERING)
MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 75 M**

Answer **ONE Question** from **EACH UNIT**
All questions carry equal marks
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			CO	KL	M
		UNIT - I			
1.	**a).**	Explain abt the different subsystems of a power system and associated controls and operating states of power system.	**1**	**K2**	**8**
	b).	Explain the classical methods of analysis of power system stability.	**1**	**K2**	**7**
		OR			
2.		Explain abt the modelling of Synchrons machine using park's transformation.	**2**	**K3**	**15**
		UNIT - II			
3.		Draw the functional and standard block diagram of excitation system and explain.	**3**	**K4**	**15**
		OR			
4.		Explain abt the modelling of Synchrons machine with model 1.1	**2**	**K3**	**15**
		UNIT - III			
5.		Explain abt the small signal stability of system by eigen value approach.	**2**	**K3**	**15**
		OR			
6.		Draw the block diagram and Explain abt the small signal stability for SMIB system with RH criterion.	**2**	**K3**	**15**
		UNIT - IV			
7.		Explain abt the Power system stabilizer with each component in PSS.	**3**	**K4**	**15**
		OR			
8.		Draw and explain the modelling of SMIB system with and witht PSS.	**3**	**K4**	**15**
		UNIT - V			
9.		Explain abt the concepts of multi machine stability	**2**	**K3**	**15**
		OR			
10.		What are different solution techniques for transient stability and explain the modified Euler method for the determination of transient stability.	**2**	**K3**	**15**

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