Code: EEPC1T3

I M.Tech-I Semester-Regular Examinations-February 2016

POWER SYSTEM OPERATION AND CONTROL (POWER SYSTEM CONTROL AND AUTOMATION)

Duration: 3 hours

Answer any FIVE questions. All questions carry equal marks

- 1. Explain with example solution of unit commitment problem by priority list scheme method.

 14 M
- 2. Explain about unit commitment via forward dynamicProgramming.14 M
- 3. Explain with neat sketch the load frequency control of single area system.

 14 M
- 4. Explain with neat sketch steady state response and dynamic response of an isolated power system.

 14 M
- 5. a) Explain load frequency control in a two area systemwith neat block diagrams.7 M

	b) Derive the expression for tie-line power in a two area system.	7	M
6.	a) Explain optimal load flow problem using steady state representation.	7	M
	b) Explain significance of optimal parameter adjustment.	7	M
7.	a) Explain about hard limits and slack variables.	7	M
	b) Explain about Take-Or-Pay fuel supply contract.	7	M
8.	Explain with example economic interchange between interchange to the connected utilities.	_	
	connected utilities.	4	M