

Ref No:

Ex/EE/T/323/2018

B.E. ELECTRICAL ENGINEERING THIRD YEAR SECOND SEMESTER - 2018**SUBJECT: - POWER SYSTEM PERFORMANCE**

Full Marks: 100

(50 marks for this part)

Time: Three hours

	b)	Illustrate the following methods of improving transient stability: (i) Use of auto-reclosure circuit breakers. (ii) Use of braking resistors.	(2×4)
5)	a)	Illustrate with proper diagram the static excitation system. Also explain the term "field flashing".	(8)
	b)	Illustrate with proper diagram the function of Load Compensator in excitation system.	(4)
	c)	Illustrate the term "ceiling voltage" in excitation systems.	(2)
	d)	Illustrate "synchronous condenser".	(2)