Total No. of Questions: 8]			[Total No. of Printed Pages: 2
			Roll No
		EE/EX-7	003 (CBGS)
		B.E. VI	I Semester
		Examination	, November 2019
	Cl	noice Based Gra	ding System (CBGS)
			ntion to Power System Three Hours Maximum Marks: 70
No	te:	i) Attempt any five qu	
		ii) All questions carryiii) Assuming missing	
1.	a)		line loadability and what do you ity curves of alternator.
	b)		and Branch. Also explain with a odal analysis is preferred over Mesh 7
•	3) 1	127 Ann aillideis gerillos	*CALLER AND STREET, CO.
2.	a)	power control devices	te Load bus voltage using reactive ?
	b)	Write short notes about i) SVC ii) SVS	ut the following: 7

What do you understand by regulated shunt compensation?

Distinguish between Series and Shunt compensation. 7

b)

4.	a)	Describe the significance of generation shift and I outage distribution factors in sensitivity analysis of possystem.	ine wer 8		
	b)	Explain the sensitivity relating changes in reactive por	wer		
		for changes in P - V bus voltages.	6		
5.	Write short notes on:				
	a)	Pre and Post contingency	5		
	b)	Corrective load re-scheduling	5		
	c)	Security level	4		
6.	a)	Explain major function of Power system security Enumerate power system static security levels.	and 10		
	b)	Describe Contingency analysis.	4		
7.	a)	Derive the elements of Jacobian Matrix of a power sys	tem		
		or a contain that it is power by s	7		
	b)	Discuss the approach for Voltage stability analysis	of a		
		given system.	7		
8.	a)	Explain what you mean by reactive compensation of load and discuss how it helps in maintaining voltage stability.			
	b)	What are P-V and V-Q curves? Discuss how these he studying voltage stability of the system.	elp in		