Total No. of Questions: 8 ] [ Total No. of Printed Pag	es:2			
MEPS-104				
M. E. (First Semester) EXAMINATION, Dec., 2	aria.			
POWER ELECTRONICS APPLICATION				
TO POWER SYSTEMS				
(MEPS-194)				
Time: Three Hours				
Maximum Marks : 100				
Minimum Pass Marks : 40				
Note: Attempt any five questions. RGPVONLINE.COM				
<ol> <li>(a) Develop a model for OLTC.</li> </ol>	10			
(b) Develop an algorithm for formation of bus impedent	апсе			
HIGH IX"	10			
2. (a) Enlist the problems associated with the transfer	e of			
ceactive power over long transmission line.	10			
(b) Develop a model for long transmission line.	10			
<ol> <li>(6) Discuss security levels in power system with the h of flowchart.</li> </ol>	ielp			
(b) Give an application of GSDF and LODF for each.	10			
4. (a) Specify the following:	. 10			
Contingency selection	:0			
es commission salection				

(b) Explain security functions. What is precontingency

10

(li) Contingency evolution

corrective scheduling?

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5.	(a)	Distinguish the following:	10		
		(i) Voltage stability and rotor angle stability			
		(ii) Security, stability and reliability			
	(b)	Explain how P-V curve can be used as an indicator	for		
		assessing loadability margin,	10		
ń.	(a)	Define FACTS and give its applications in po	wer		
		system.	10		
	(b)	Discuss SVC and its application.	10		
7.	(a)	Compare SVC and STATCOM.	10		
	(b)	Derive the equivalent model of TCSC.	10		
8.	(a)	How will you solve power flow equations using h	₹-R		
		method?	10		
	(b)	(b) Write short notes on any two of the following :5 each			
		(i) Capability curve of an alternator			
		(ii) FDLF			
		(iii) Shunt compensation			
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