Code No: D0703

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech II - Semester Examinations, March/April 2011 HIGH VOLTAGE DC TRANSMISSION (ELECTRICAL POWER SYSTEMS)

Time: 3hours Max. Marks: 60

Answer any five questions All questions carry equal marks

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1.	Draw the neat sketches of monopolar, bipolar and heteropolar DC transmission system and explain about it.	[12]
2.	Explain converts station functionally and terminal equipment commutation process.	[12]
3.	a) Explain the characteristics of harmonics.b) What are the adverse effects of harmonics?	[12]
4.	a) Explain constant – minimum ignition angle control.b) What is meant by constant Cullent Control? Explain it.	[12]
5.	a) Classify the solution methodology for AC – DC load flow and explain.b) Explain the percent systems for DC quantities.	[12]
6.	Explain about stating and stopping of DC link.	[12]
7.	a) What are the various faults exist in converter station? Explainb) Define inductance and differential inductance state the function of smoothing reator.	[12]
8.	Write state notes on a) Over current protection	
	b) Surge arresters	[12]
