GANPAT UNIVERSITY

M. Tech. Semester: III (Electrical Engineering)

Regular Examination December 2013

Power System Restructuring 3EE303

Time: As per	Scheme	Total Marks:	70
	1 All Q	Questions are compulsory me suitable data if required res to the right indicate full mark of the question	
	51160	Section - I	
Que. –	1 A	What is deregulation or restructuring of a power industry? Discuss the reasons for restructuring / deregulation of the power industry.	06
	В	Discuss the salient features of Indian Electricity Act 2003	06
Que. –	1 A	Discuss the provisions of grid code for the commercial settlement of wind energy generation.	06
	В	Discuss the advantages and disadvantages of deregulations in power	06
Que. –	-2 A	What are the types of market models considered to achieve the electricity market goals? Discuss PoolCo market in details.	06
	В	List out the names of companies with their main functions concern with restructuring of power Industry in Gujarat.	05
Que	-2 A	What is ISO? Discuss the functions of ISO in restructured power systems	06
. Age.	В	What is competitive bidding? Explain how the competitive bidding helps in the operation of power system with suitable example	05
Que	-3 A B	Discuss the operational Planning activities of generation company in Bilateral What is REC in context to restructured power systems? Discuss the main functions of State REC and Central REC.	06
		Section – II	42.6
Que	-4 A	Discuss the market based and non market based mechanism used for congestion management	130
	В	What is transmission line loss allocation? Describe any one method of transmission line loss allocation OR	
Que	-4 A	What is Congestion management? Which limiting factors of transmission line are responsible for congestion in power systems? Also explain how length of	6
	В	the line affects this factors What is ATC? Describe the Steps for calculating ATC using flow chart	6
Que.		Explain the type of Ancillary services required by ISO for routine operation of restructured power systems	06
	В	What is point of connection tariff? Explain with suitable example	05
Que.	-5 A	Explain MW Mile method for transmission pricing with suitable example	06
	В	What LMP? Explain how LMP is calculated for transmission pricing with suitable example	05
Que	-6	Write Short notes on	06
	1 2	Reactive power as an ancillary service for restructured operation Global experience with electricity reforms in leading countries of the world	06