SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR ROLL No: Total number of pages: Total number of questions: 05

	M.Tech. EE 3 rd Sem	
Power System Planning Subject Code: MELE1-372		
Time allowed: 3 Hrs Max Max		irks: 60
Impo	ortant Instructions:	
•	Attempt all questions	
•	Each question carries equal marks	
Q. 1.	Discuss the importance of load forecasting in power system planning. Give salient features of various forecasting techniques. Which method of load forecasting would you suggest for long term and why? Discuss in detail. OR	CO1&CO2
	detail.	CO1&CO2
Q. 2.	b) Write short note on Unit Maintenance Schedules Formulate least cost optimization problem involving different costs and give methods to solve the problem.	COI
	OR	
	Explain Forecasting of Energy by Trend and Economic Projection Methods.	COI
Q. 3.	Describe the importance and execution of transmission system planning on long term basis.	CO1&CO2
	OR	6018603
	Discuss in detail about Power Pool Operation and power exchange contracts.	CO1&CO2
Q. 4.	What is Power System Planning? What are its objectives? Discuss different stages involved in Planning. OR	CO2
	How automatic transmission planning is realized using interactive	CO2
Q. 5.	graphics. Explain. Write short note on i) Electric utility industry ii) Review of Load forecasting	COI
	OR a) What is the need and importance of Generation system expansion planning? Discuss in detail. b) Explain traditional generation expansion planning models in detail.	COI