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PSA Sem-I (old) Electrical-Power System Analysis Q.P. Code: 583000 (3Hours) [Total Marks: 100 N.B.: (1) Question No 1 is Compulsory (2) Solve any Four Questions out of remaining (3) Assume the suitable data if required and specify the same 1. Answer the following questions 20 (a) What is the difference between no-load and loaded condition, short circuit in synchronous machine? (b) What are the properties of corona pulses? (c) What are the various sources of absorption of reactive power? How rotating machines are protected from surges?

2.	(a)	Discuss the selection of circuit breaker	10
	(b)	Discuss the various Z bus formation techniques.	10
3.	(a)	Discuss the sequence network for synchronous machines	10
	(b)	Discuss the Bus impedance matrix method for analysis of faults	10
4.	(a)	Discuss the various measures to remove over voltages	10
	(b)	Discuss the insulator flash over and withstand voltage	10
5.	(a)	Discuss any one type of lightning arrestor	10
	(b)	Discuss the corona QV diagram.	10
6.	(a) .	Discuss the terms attenuation, radio interference, television interference and corona ring.	10
	(b)	What are the various gradient factors? Discuss its application-	10
7.	(a)	Discuss the Mangoldt formula.	10
	(b)	Discuss real and reactive power contours.	10