9/12/2024 ELECTRICAL SEM-VIII C SCHEME PSPAR (DLOC-VI) QP CODE: 10066537

(Time: 3 Hours)	Total Marks – 80
N.B.:- (1) Question No.1 is compulsory. (2) Attempt any three questions out of remaining f (3) Assume necessary data wherever necessary.	ive questions.
 Q1. Attempt the following 1. State characteristics of load. 2. Describe Bath tub curve. 3. State System and load point indices. 4. Describe peak load forecasting. 	Standing The Standing
Q2. 1. Describe important points in Short term lo 2. Explain the weather sensitive load model.	ad forecasting.
 Q3. Explain Markov process with two state mo A system is having four components with i and 0.95 each. Calculate reliability and unrare connected in i) series and ii) parallel. 	
 Q4. 1. Explain Capacity Outage Probability table no de-rated state. 2. Consider a system containing five units of capacity outage table for the system. Find I 	Recursive algorithm for systems including 10 40MW each with FOR=0.03. Prepare the Loss of Load Expectation and risk factor if
Q5 1. A generating system has one generator of 2 FOR 0.02. Prepare Capacity Outage Table 2. Calculate reliability evaluation using condi	25 MW and 2 generators of 50 MW with for the same. 10 tional probability approach in the
following system in with individual compo	Output
Q6. 1. Describe Reliability evaluation of radial disc. 2. Explain the impact of renewable energy on	•

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