Roll No.							Total No. of Pages : 0

Total No. of Questions: 08

M.Tech (Electrical Power System) (2018 Batch) (Sem.-2) POWER SYSTEM DYNAMICS-II

Subject Code: EEPS-202-18 M.Code: 76082

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1.Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWELVE marks.
- Q.1 Explain the block diagram representation of small signal model of single machine infinite bus system with K constant.
- Q.2 Discuss the role of power system stabilizers for the enhancement of small signal stability.
- Q.3 From the fundamentals develop the flux linkage equations of the synchronous machine and draw its equivalent circuits.
- Q.4 Explain the numerical methods used for the analysis of transient stability.
- Q.5 Explain in detail stability enhancement techniques.
- Q.6 Write detailed technical notes on the small stability of multi machine system.
- Q.7 a) What are the salient disturbances that cause voltage instability?
 - b) Explain the voltage collapse phenomenon with the help of P-V curves.
- Q.8 Explain tie line bias control of two area system.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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