Roll No. | | | | | | | | | | | | |

Total No. of Pages : 01

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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.