

Roll No. ....

**23286**

**M. Tech 2nd Sem. (Electrical Power Systems) Examination – May, 2018**

**POWER SYSTEM DYNAMICS OF STABILITY**

**Paper : MTEPS-201**

**Time : Three Hours ] [ Maximum Marks : 100**

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt any *five* questions out of given eight.

1. (a) Classify different power system stability criteria. 10
- (b) Differentiate between static and Dynamic analysis for voltage stability. 10
2. (a) What is voltage collapse ? What are the different ways of preventing it ? 10
- (b) Explain various methods used for improving transient stability. 10
3. (a) Explain numerical integration methods. 10

- (b) What are the limitations of direct methods ? 10
4. (a) What is magnetic saturation ? How it affects the working of a machine ? 10
- (b) Draw and explain constant flux linkage model. 10
5. What are voltage regulators ? Where these are used ? Explain any two types voltage regulators used in excitation systems. 20
6. (a) Why do we require a rotating amplifier ? Explain its circuit and working. 10
- (b) Derive a basic equation of a synchronous machine. 10
7. Explain the effect of saturation, saliency and automatic voltage regulation on stability. 20
8. Write short notes on : 20
- (a) Digital simulation of transient stability
- (b) Brushless excitation systems.

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