

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE - RAIGAD - 402 103
Summer Semester Examination - May - 2018**

Branch: M.Tech. (Electrical Power System)

Semester: II

Subject with Subject Code:- Power System Dynamics and Control (MTEPS201)

Date:- 14/05/2018

Marks: 60

Time: 3 Hrs.

Instructions to the Students

1. Each question carries 12 marks.
2. Attempt all questions.

- (Marks)
- Q.1.** Draw the functional block diagram of excitation system and explain all the elements in detail . (12)
- Q.2.** Derive stator equations for small signal stability analysis of single machine infinite bus System. (12)
- Q.3.** What is power system stabilizer? Why is it used? Explain its tuning procedure. (12)
- Q.4.** Explain in detail the effect of AVR on synchronizing and damping torque components. (12)

OR

- Q.4.** Explain any one technique of analysis of very large systems. (12)
- Q.5.** Explain operation of delta - omega and delta - P - omega stabilizers in detail and compare them. (12)
- OR**
- Q.5.** Explain various design criteria in connection with digital stabilizer. (12)