Roll No. | | | | | | | | | | | |  Total No. of Pages : 01

Total No. of Questions : 08

M.Tech (Power System) (2018 Onwards) (Sem.–1)

# POWER SYSTEM ANALYSIS

Subject Code : MTPS-101-18

M.Code : 75774

Time : 2 Hrs. Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE question(s), each question carries 6 marks.

1. Discuss in brief the fast decoupled method for load flow studies with its merits and demerits.
2. Explain in details the role of AVR in load flow studies.
3. Why is faults analysis important? Discuss any one fault analysis method in detail.
4. Define generator shift distribution factors. Also, discuss significance of these factors for security analysis of a system.
5. Explain the terms line outage distribution factor and multiple line outages with the help of examples.
6. What do you mean by power system equivalents? Discuss about these equivalents in detail.
7. What are main reasons for collapse of voltage in a power system? Explain how the voltage collapse is avoided in the system.
8. Write short notes on the following :

   a) P-V curve

   b) Handling Q-max violations in constant matrix