

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (Power System) (2018 Batch) (Sem.-2)

DISTRIBUTED GENERATION

Subject Code : MTPS-204B-18

M.Code : 76139

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

1. How distributed generation is different from conventional generation? Why there is need for distributed generation? Discuss current scenario of distributed generation in India.
2. How DG's are planned in power systems? Discuss integration of DGs to grid.
3. What do you know about :
 - a) Aggregation of multiple DG units
 - b) Sizing of micro-grids
4. Discuss economic and control aspects of DGs market facts.
5. What are different voltage control techniques? Why and how reactive power control is done?
6. Write a note on impact of DGs upon transient and dynamic stability of existing distribution systems.
7. How micro-grid is different from conventional grid? What are different types of micro-grids? How micro-grids are protected?
8. Write a note on :
 - a) Transients in micro-grids
 - b) Micro-grids with power electronic interfacing units

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.