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M.Tech. Electrical Power System EL-II (2018 Batch) (Sem.–1)

ELECTRICAL POWER DISTRIBUTION

Subject Code : EEPS-104Y-18

M.Code : 75734

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. Distinguish between transmission and distribution systems. What are the most important factors to be considered in determining a distribution voltage?
2. List out the various advantages of Distribution Management systems (DMS).
3. '*Utilities with both medium-voltage and high-voltage (HV) subtransmission networks (230-66 kV) tend to operate the HV through a dedicated SCADA, integrating both voltage levels in one system*'. Having the above information available, discuss the different control levels/layers of a typical SCADA system.
4. Describe the configuration of a typical SCADA system. What are RTUs in SCADA systems? What are the basic functions of RTUs?
5. What are the maintenance practices undertaken for Automated Distribution systems?
6. What are the future trends, techniques and practices to be followed and applied to the Distribution Automation?
7. Draw a schematic diagram of a SCADA system and list out the advantages and disadvantages of each system.
8. What are Distribution Automation (DA) systems? Why DA systems are replacing the earlier Distribution systems?

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.

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