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M.Tech. (ECE) (2018 Batch) (Sem.–2)

PROGRAMMABLE NETWORKS-SDN, NFV

Subject Code : MTEC-PE4C-18

M.Code : 76267

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. What is Programmable Network? Explain the various characteristics of SDN in detail.
2. Explain the concepts of Control and Data Plane separation in detail? Also illustrate OpenFlow protocol.
3. What is Network Virtualization? Explain any existing Network Virtualization Framework in detail with suitable diagram.
4. What is Network Functions Virtualization (NFV)? Write various application of SDN in detail.
5. Explain the procedure of data center networks for Traffic Engineering networks in detail.
6. Explain wireless architectures used for data center Networks with suitable diagram. Also mention various challenges faced during its deployment?
7. Explain the concept and implementation of SDN with a suitable diagram.
8. Write Short notes on :
   a) Software Defined Network (SDN) Controllers
   b) Active Networking
   c) Mininet simulation environment

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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