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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



VI SEMESTER B.TECH (COMPUTER SCIENCE AND ENGINEERING)
END SEMESTER EXAMINATIONS, MAY 2016
SUBJECT: ADVANCED COMPUTER NETWORKS [CSE 350]
PROGRAM ELECTIVE I
REVISED CREDIT SYSTEM
DATE: 04/07/2016

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ANY FIVE FULL** questions.
- ❖ Missing data, if any, may be suitably assumed.

- 1.A. Explain in brief the types of layer-2 roaming in wireless networks. 4M
- 1B. With an illustration, describe Spanning Tree Protocol. 6M
- 2A. What are ACL(Access Control Lists)? Explain in brief the two different types of ACL's. 5M
- 2B. Explain why VTP(VLAN Trunking Protocol) is needed and also about the modes of the VTP. 5M
- 3A. Explain the DNS-round robin method of load balancing with respect to data center network architecture design. Mention its disadvantages. 4M
- 3B. What do you mean by virtual hosting? Explain in brief about any three ways of virtual hosting? 6M
- 4A. Describe the different components of virtual machine with respect to virtualization. 6M
- 4B. Explain in brief how virtualization leads to business continuity. 4M
- 5A. List the essential characteristics of cloud computing. 2M
- 5B. What are the two metrics used in Disaster Recovery Plan? Define them. 3M
- 5C. Explain Extensible authentication protocol-Transport Layer Security (EAP-TLS) used in wireless environment with a neat diagram. 5M
- 6A. Explain in brief the RTP (Real-time Transport Protocol) with its frame format. 5M
- 6B. Explain in brief the following terms with respect VOIP. 5M
 - a. Jitter
 - b. Echo
 - c. PSTN numbering plan.
 - d. Voice activity detection
 - e. DTMF(Dual Tone Multi-frequency)
