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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.

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| 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.
a. Jitter d. Voice activity detection
b. Echo e. DTMF(Dual Tone Multi-frequency)
c. PSTN numbering plan. | 5M |
