



MANIPAL INSTITUTE OF TECHNOLOGY, MANIPAL 576104
(Constituent College of Manipal University)



SIXTH SEMESTER B.TECH. (IT/CCE) DEGREE MAKEUP EXAMINATION, JULY – 2016
SUBJECT: PROGRAM ELECTIVE I – NETWORK TECHNOLOGIES – ICT 332
(REVISED CREDIT SYSTEM)

TIME: 3 HOURS

04/07/2016

MAX. MARKS: 50

Instructions to candidates

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

- 1A. How does server multi-homing improve the performances of Data Center? What are the special features of Server Adapter?
- 1B. What is community cloud? Explain with suitable example.
- 1C. Derive and prove that the T3 data rate is higher than E3 carrier. [5+3+2]

- 2A. How do frame filtering and frame tagging work? What is the role of client-server model in VTP?
- 2B. What are reasons for server performance degradation? How to increase it?
- 2C. Compare the performances of IEEE 802.11a, 802.11b, and 802.11g. [5+3+2]

- 3A. What are goals and potential benefits of VoIP? What is the role of DSP in VoIP communication?
- 3B. How do you solve the problem of looping issues in DVR?
- 3C. How do you deploy Data Center network services? [5+3+2]

- 4A. How does PEAP fix the security problems? Also, explain the working of PEAP with diagram.
- 4B. List and explain the mechanism to increase the performance of a server used for virtualization.
- 4C. How does VPN and SSL help in Cloud Computing? [5+3+2]

- 5A. Explain disaster recovery planning and management of cloud computing.
- 5B. List the characteristics of RTP and RTCP. What is the use of 32 bit synchronization source in RTP header?
- 5C. Compare different failover models provided for load balancer. [5+3+2]

- 6A. How do you implement virtualization? Explain the processes involved in it.
- 6B. Compare symmetric and asymmetric tunnelling in wireless communication.
- 6C. What is spanning tree? Why do we need it? [5+3+2]
