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MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
A Constituent unit of MAHE, Manipal

VI SEMESTER B.TECH. (COMPUTER SCIENCE & ENGINEERING)
MAKE-UP EXAMINATIONS, JUNE 2019

SUBJECT: ADVANCED COMPUTER NETWORKS[CSE 4013]

REVISED CREDIT SYSTEM
(14/06/2019)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

- 1A. With a diagram explain the operation of External BGP. 5M
- 1B. With an example explain the working of STP. 3M
- 1C. Discuss the RIP performance based on update messages, convergence and robustness. 2M
- 2A. Explain different reasons for an organization to move towards desktop virtualization. 5M
- 2B. Explain the virtualization management step with respect to data center virtualization. 3M
- 2C. Explain why application streaming is better compared to traditional ESD methods. 2M
- 3A. With a diagram explain the working of Extranet server farm. 5M
- 3B. Explain the following firewalls used in data centers
- i) Packet filtering firewall. ii) State full firewall. 3M
- 3C. Explain the concept of connection tracking mechanism in a load balancer. 2M
- 4A. With a header diagram explain different fields of RTP header. 5M
- 4B. Explain how jitter is calculated in RTCP. 3M
- 4C. For voice transmission over IP, UDP is used rather than TCP. Why? 2M
- 5A. Explain the principle of different types of speech coders and also compare the speech quality versus bit rate. 5M
- 5B. With diagram explain the different server attachment with multiple ports for better performance. 3M
- 5C. Write note on server consolidation in a data center through virtualization. 2M

