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

VI SEMESTER B.TECH. (COMPUTER SCIENCE & ENGINEERING)
END SEM EXAMINATIONS, APRIL/ MAY 2019

SUBJECT: ADVANCED COMPUTER NETWORKS[CSE 4013]

REVISED CREDIT SYSTEM
(30/04/2019)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

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

- 1A. With diagram explain five types link state advertisements used in OSPF. 5M
- 1B. Describe different approaches to assign VLAN membership. 3M
- 1C. Why BGP uses the services of TCP instead of UDP? 2M
- 2A. With a diagram explain how network virtualization helps in hosting virtual machines from different network zones within a host. 4M
- 2B. Discuss the different benefits of Application virtualization for an organization. 4M
- 2C. Compare the following methods which could be used to upgrade the computational facility in one of your computing lab. 2M
- i) Replace old computers with new ones. ii) Desktop virtualization.
- 3A. With a diagram explain Internet server farm that support application environments in a typical data center. 5M
- 3B. With a diagram explain multiple tier application environment in a datacenter. 3M
- 3C. Explain different challenges presented by DNS round robin based load balancer. 2M
- 4A. Briefly explain different types of RTCP packets. 5M
- 4B. Discuss the role of mixers and translators in handling multiple RTP media streams. 3M
- 4C. Explain how round trip time is calculated in RTCP. 2M
- 5A. With diagram explain SIP proxy and SIP redirect operations. 5M
- 5B. Discuss the different possible layer 2 attacks in a data center. 3M
- 5C. Explain the Layer-4 load balancing technique. 2M

