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VI SEMESTER B.TECH. (COMPUTER SCIENCE & ENGINEERING) MAKEUP EXAMINATIONS, JUNE 2018

SUBJECT: ADVANCED COMPUTER NETWORKS [CSE 4013]

REVISED CREDIT SYSTEM (20/06/2018)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

❖ Answer **ALL** the questions.

Missing data may be suitably assumed. 1A. 2MWhat are the functions of Transport layer in OSI reference Model? What is VTP Pruning? Explain three types of VTP advertisement messages. 1B. **4M** 1C. Explain Spanning-Tree Protocol in detail with necessary Diagrams. Describe the following in Spanning Tree Protocol **4M** (i) Root Bridge (ii) Blocked ports 2A. **3M** Explain the n-Tier Application Architecture Model in Data Centers. 2B. **4M** What is Frame tagging? Explain three VLAN Identification Methods. 2C. 3MDescribe the three Failover Models for Load Balancer. 3A. 2MExplain three ways of achieving Server Multi Homing with necessary diagrams. **3B. 4M** How DoS attack affect Data Centers? Explain different types of DoS attacks. 3C. **4M** What are the three switching modes of LAN switches? Explain each of them.

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4A.	Explain the following: (i) Full Virtualization (ii) Para Virtualization (iii) Hardware assisted Virtualization	4M
4B.	Explain four key Properties of Virtual Machines.	2M
4C.	Explain the four steps involved in Virtualization Implementation.	4M
5A.	What is the purpose of SDP? Explain three levels of information in an SDP message.	3M
5B.	Explain two approaches for constructing a VoIP topology.	4M
5C.	What are the basic SIP request methods? Explain the functions of each.	3M

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