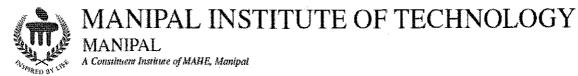
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VI SEMESTER B.TECH. (INFORMATION TECHNOLOGY/COMPUTER AND COMMUNICATION ENGINEERING)

MAKE UP EXAMINATIONS, JUNE 2018

SUBJECT: PROGRAM ELECTIVE III - CLOUD COMPUTING [ICT 4017]

REVISED CREDIT SYSTEM (22/06/2018)

MAX. MARKS: 50 Time: 3 Hours **Instructions to Candidates:** ❖ Answer **ALL** questions. Missing data may be suitably assumed. 5 1A. With a neat diagram explain the various components that are required to build the cloud infrastructure? 1B. Give any three difference between grid and cloud computing. 3 Consider a virtual machine configured with 50% share and 10 GB memory limit. If a 2 2 GB swap file got created on data store when the virtual machine is powered on, calculate the size of 'reservation' that was configured? 2A. Define storage virtualization. With a neat diagram explain how storage virtualization 5 is implemented at compute and storage layers. Write a pseudo code which helps the Google App Engine to understand and handle a 3 2B. deployed application. Why most mature SOA implementations favor orchestration over choreography? 2 2C. List the key components of Physical to Virtual Machine (P2V) Converter. With the 5 3A. help of a neat diagram, explain the working of cold conversion process. With a neat diagram explain desktop and application virtualization. 3 3B. What are the significance of service catalogue management and its attributes in 2 3C. cloud? With a neat diagram explain different methods to migrate virtual machines in the 5 4A. cloud environment 3 Demonstrate the network connectivity and traffic flow in the virtual environment when a physical server uses PNIC and FC/iSCSI HBA to connect client and storage

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4C.	What is burst size in network traffic management techniques? Calculate the burst size if average bandwidth is 1Kbps and peak bandwidth is 4 Kbps.	2
5A.	Explain why Velocity of Attack and Multi-tenancy are the cloud security concerns?	5
5B.	How Defence-in-Depth and Trusted Computing Base help in designing a security framework for an information system?	3
5C.	Mention any four advantages of CloudSim	2

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