U.S.N



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Fifth Semester - Master of Computer Applications (MCA) Semester End Examination; Dec. - 2015 Information Storage and Management

Time: 3 hrs Max. Marks: 100

Note: Answer any *FIVE* full questions. 1 a. List and explain the key requirements of Data center. 10 b. Define the core elements that are essential for the basic functionality of a Data center. 5 c. Explain any two key components of a disk drive. 5 2 a. Discuss the techniques used to define the RAID Levels. 8 b. With a neat diagram, explain front End of Intelligent storage system. 8 Describe the structure of Cache with a neat diagram. 4 3 a. List the benefits and limitations of Direct Attached Storage (DAS). 6 b. With a neat diagram, explain SCSI-3 Client-Server model. 6 Explain the components of storage Area Networks. 8 4 a. Define Zoning. Explain its types. 7 Write a note on *iSCSI* Names. 5 c. Explain the benefits of NAS. 8 5 a. Explain NAS file sharing protocols. 6 b. What is fixed content and Archives? Discuss the types of archives. 6 Explain the features and benefits of CAS. 6 a. Explain the types of storage virtualization. 10 b. With a neat diagram of BC planning lifecycle, list the activities performed at each stage. 10 7 a. Discuss the needs of Backup. 8 5 b. Explain the uses of Local Replicas. Explain LVM-based replication with its advantages and limitations. 7 8 a. Explain the modes of Remote Replication. 10 Explain the primary services of storage security framework. 6 Mention the parameters to be monitored in a storage infrastructure. 4