

--	--	--	--	--	--	--	--	--	--



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

(An Autonomous Institution affiliated to VTU, Belagavi)

Seventh Semester, B.E. - Computer Science and Engineering

Semester End Examination; Dec - 2017/Jan - 2018

### Information Storage Management

Time: 3 hrs

Max. Marks: 100

*Note: Answer FIVE full questions, selecting ONE full question from each unit.*

#### UNIT - I

- 1 a. Define Information Lifecycle. How it is implemented and managed? Describe the characteristics of Information Lifecycle Management. 10
- b. List and explain the key components of a disk drive. 10
- 2 a. Explain different RAID levels. 10
- b. Explain high end storage systems to address the needs of enterprise storage. 10

#### UNIT - II

- 3 a. Discuss different types of direct attached storage and SCSI-3 architecture. 10
- b. List and explain the benefits of Network Attached Storage. 10
- 4 a. Mention and explain the key components of Storage Area Network. 10
- b. Discuss different Network Attached Storage file sharing protocols. 10

#### UNIT - III

- 5 a. Explain iSCSI Names, Session and Protocol data units. 10
- b. Explain the different forms of virtualization that is existing over years. 10
- 6 a. Discuss the essential features that should be part of any CAS solution. 10
- b. What are the topologies used to implement iSCSI? Explain. 10

#### UNIT - IV

- 7 a. Discuss the different stages of business continuity planning life cycle. 10
- b. What is Backup? What are the Backup methods used? Discuss the challenges of Backup. 10
- 8 a. Define business impact analysis. What are the tasks that should be included in business impact analysis? Discuss. 10
- b. What are the purposes for performing Backups? Explain. 10

#### UNIT - V

- 9 a. How data consistency is achieved in replicated file system and databases? Explain. 10
- b. What are the different approaches to host based remote replication? Discuss. 10
- 10 a. How the application access domain is secured? Explain briefly with a neat figure. 10
- b. Discuss how the management tasks in a storage infrastructure is categorized? Explain. 10

\* \* \*