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

(An Autonomous Institution affiliated to VTU, Belgaum)

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

Make-up Examination; Jan / Feb - 2017

Information Storage and Management

Time: 3 hrs

Max. Marks: 100

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

UNIT - I

- 1 a. List and explain the key characteristics of data center element. 10
 b. Explain the techniques that are used to define RAID levels (with example). 10
 2 a. What is cache? How is it implemented and managed in intelligent storage system? 10
 b. Explain the logical components of the hosts. 10

UNIT - II

- 3 a. Discuss different types of Direct attached storage, its benefits and limitations. 10
 b. What are the key elements of storage area network? Explain. 10
 4 a. List and describe the benefits of network attached storage. 10
 b. Explain fibre channel arbitrated loop inter connectivity with the example of data transmission. 10

UNIT - III

- 5 a. Explain iSCSI protocol stack and iSCSI PDU. 10
 b. Discuss the process of storing and retrieving objects in content addressed storage. 10
 6 a. Explain the challenges of storage virtualization. 10
 b. Outline the features and benefits of CAS. 10

UNIT - IV

- 7 a. Explain the different stages of business continuity planning life cycle. 10
 b. Discuss backup consideration and backup granularity. 10
 8 a. List and define common terms related to business continuity operation. 10
 b. What are the purposes for performing backups? Explain. 10

UNIT - V

- 9 a. Discuss the host based replication technology used in local replication. 10
 b. Which are the optical network technologies used for remote replication? Explain. 10
 10 a. Explain how the application access domain is secured? 10
 b. Discuss how the management task in a storage infrastructure is categorized? 10