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**Question Paper Code : 40368**

M.E./M.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Elective

Computer Science and Engineering

CP 5076 — INFORMATION STORAGE MANAGEMENT

(Common to M.E. Computer Science and Engineering (With Specialisation in Networks))

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the use of data creation?
2. List the challenges and solutions available in data storage.
3. Differentiate Physical and Logical components.
4. List the major physical components of a disk drive.
5. Write various applications of environments in networks.
6. What is NAS?
7. Differentiate Business Continuity and Disaster Recovery.
8. What are the key management tasks in a data center?
9. What is information security?
10. Compare file level and block level virtualization.

PART B — (5 × 13 = 65 marks)

11. (a) Explain the challenges in data creation and data management process with example. (13)

Or

- (b) What are the core elements of a data centre infrastructure? Explain each element role in business activities. (13)

12. (a) Explain hardware, software, key protocols and components of storage system architecture in detail. (13)

Or

- (b) What is high level architecture and explain the working principles of intelligent storage system. (13)
13. (a) Explain FC-SAN architecture, storage and topologies in detail. (13)

Or

- (b) How the CAS will work and explain the applications and options in detail? (13)
14. (a) Explain the architecture of backup and recovery process with example. (13)

Or

- (b) Explain key management and storage process in data center. (13)
15. (a) Explain the various attributes of critical security of information systems in detail. (13)

Or

- (b) What is virtualization? Explain the various virtualization types with example. (13)

PART C — (1 × 15 = 15 marks)

16. (a) What is RAID? Compare and Correlate each RAID levels with examples. (15)

Or

- (b) Construct Information Storage Architecture for Hospital Processing including business continuity Disaster Recovery, Backup and security Policies. (15)