

R15

Code No: 128ET

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, May - 2019

STORAGE AREA NETWORKS

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- 1.a) What are the advantages of disk drive storage? [2]
- b) What are the benefits of storage networks on business applications? [3]
- c) What are the components of IP SAN? [2]
- d) Write a short note on RAID 0. [3]
- e) Write a short note on unplanned outages. [2]
- f) Explain in brief about Business continuity. [3]
- g) Write a short note on key management tasks in a data center? [2]
- h) What are the key metrics to monitor for different components in a storage infrastructure? [3]
- i) Explain the concept of Information security. [2]
- j) List the common threats in each domain. [3]

PART - B

(50 Marks)

2. What are the solutions available for data storage? Explain in detail. [10]
- OR
3. Explain about the functionalities of the core elements of a data center infrastructure. [10]
4. Briefly explain the concept of RAID and its levels. [10]
- OR
- 5.a) Describe the storage system operations.
- b) Compare and contrast the integrated storage system and modular storage systems. [5+5]
6. Identify the single points of failure in a storage infrastructure and also list solutions to mitigate these failures. [10]
- OR
- 7.a) Briefly explain about planned outages.
- b) Differentiate between business continuity and disaster recovery. [5+5]
8. Explain the replication technologies and their role in ensuring information availability and business continuity. [10]
- OR
9. Explain the architecture of backup/recovery. [10]
- 10.a) Explain the concept of Storage Virtualization.
- b) Explain about the critical security attributes for information systems. [5+5]
- OR
11. Briefly explain about file-level virtualization technology. [10]

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