



R18 Regulation

Subject code: 2E8EF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech. VIII Semester Regular Examinations, June 2022

STORAGE AREA NETWORKS

(Computer Science and Engineering)

Maximum Marks: 70

Date: 18.06.2022 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10x2M=20 Marks)

- 1 What are the solutions available for data storage?
- 2 Outline the major physical components of a disk drive and their function.
- 3 List the appropriateness of the different networked storage options for different application environments.
- 4 Compare and contrast integrated and modular storage systems.
- 5 Summarize the impact of downtime.
- 6 List reasons for planned, unplanned outages.
- 7 Explain replication technologies.
- 8 Demonstrate the role in ensuring information availability and business continuity.
- 9 Write down the key metrics to monitor for different components in a storage infrastructure.
- 10 Outline the critical security attributes for information systems, Storage security domains.

Part-B

Answer All the following questions. (5X10M=50Marks)

- 11 Illustrate the hardware and software components of host environment with suitable examples. [10]
OR
- 12 Demonstrate the core elements of data center infrastructure. [10]
- 13 Summarize the high-level architecture and working of an intelligent storage system. [10]
OR
- 14 Outline the topologies of FC-SAN, NAS, and IP-SAN architectures. [10]
- 15 Differentiate between Business Community (BC), Disaster Recovery (DR), RTO and RPO. [10]
OR
- 16 Identify single points of failure in a storage infrastructure and list solutions to mitigate these failures. [10]
- 17 Explain the Architecture of backup/recovery and the different backup/recovery topologies. [10]
OR
- 18 Explain Remote replication technologies and their role in providing disaster recovery and business continuity capabilities. [10]
- 19 Identify key areas to monitor in a data center, Industry standards for data center monitoring and management. [10]
OR
- 20 List and analyzes the common threats in each domain Virtualization technologies, block-level and file-level virtualization technologies and processes. [10]