



R18 Regulation

Subject code: 2E8EF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VIII Semester Supplementary Examinations, April, 2024

STORAGE AREA NETWORKS
(Computer Science and Engineering)

Maximum Marks: 70

Date: 24.04.2024 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.
 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 Write a short note on data Management?
- 2 What are the key metrics to monitor for different components in storage infrastructure?
- 3 Write a short note on RAID 0?
- 4 What are the components of IP SAN?
- 5 Write a short note on unplanned outages?
- 6 Define Disaster recovery.
- 7 Write a short note on key management tasks in a data center?
- 8 What is data backup?
- 9 Write the concept of Information security?
- 10 List the common threats in each domain.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Briefly explain about the challenges in data storage and data management. [10]
OR
- 12 Write about the access characteristics and performance implications of disk storage? [10]
- 13 Explain different levels of RAID, also mention their suitability for different application environments. [10]
OR
- 14 Explain the benefits of the different networked storage options for different application environments. [10]
- 15 List out the reasons for planned/unplanned outages and the impact of downtime. [10]
OR
- 16 Identify the single points of failure in a storage infrastructure and also list solutions to mitigate these failures. [10]

17 Explain the Architecture of backup / recovery. [10]

OR

18 Explain the advantages of LVM based replication over host-based replication. [10]

19 What are the key management tasks in virtualization? [10]

OR

20 Describe Industry standards for data center monitoring and management. [10]