



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

B.Tech IV Year II Semester Supplementary Examinations, June 2022

STORAGE AREA NETWORK
(Computer Science and Engineering)

Maximum Marks: 70

Date: 17.06.2022 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.
 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 advantages of disk drive storage
- 2 what are the benefits of storage networks on business application
- 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 Write the steps in Restore Operation
- 9 What are the advantages of Virtualization technology?
- 10 List the common threats in each domain

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 "Five core elements are essential for the basic functionality of a data center". Explain these elements in detail. [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 working of an intelligent storage system with a neat architecture. [10]
- 15
 - a) Briefly explain about planned outages. [5]
 - b) Briefly explain about unplanned outages. [5]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 RPO that can be achieved with synchronous, asynchronous and disk-buffered remote replication. [10]
- 19 Explain about file-level virtualization technology. [10]
OR
- 20 Discuss the security threats in application access domain and suggest mechanisms to avoid them. [10]