



R20 Regulation

Subject code: 3E8FB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VIII Semester Regular Examinations, April 2024

STORAGE AREA NETWORKS

(Information Technology)

(Professional Electives)

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 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)		CO	Bloom Tx
1	Define data storage.	1	L1
2	What are the logical constructs of a physical disk.	1	L1
3	What are the components of IP SAN.	2	L1
4	What do you mean by intelligent storage system.	2	L1
5	Give reasons for planned outages.	3	L1
6	What is down time.	3	L1
7	Define Disaster recovery	4	L1
8	Write a short note on key management tasks in a data center.	4	L1
9	What are the security attributes for information systems	5	L1
10	Write about file level virtualization.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)			
11	What are the major physical components of a disk drive? Explain in detail. [10]	1	L2
OR			
12	A. What are the challenges in data storage and data management? [5] B. What are the solutions available for the data storage? [5]	1	L2 L2
13	Explain the generic layout of NAS hardware components. [10]	2	L2
OR			
14	Discuss about FC-SAN and IP-SAN. [10]	2	L6
15	What is storage virtualization? How it is achieved on block level? Explain. [10]	3	L2
OR			
16	Discuss implementation of storage area network. [10]	3	L6

17	Explain business continuity planning life cycle. [10]	4	L2
	OR		
18	Discuss the challenges and techniques involved in maintaining consistent data between the source and its replicas. [10]	4	L6
19	A. Describe Industry standards for data center monitoring and management. [5] B. What are the key management tasks in virtualization? [5]	5	L1 L2
	OR		
20	Explain about following a) Information Security [5] b) Risk Triad [5]	5	L2