Reg. No.						
- 8						

Question Paper Code

13053

M.E. / M.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2024

Third Semester

M.E. - Computer Science and Engineering 20PCNEL308 - INFORMATION STORAGE MANAGEMENT

Regulations - 2020

Duration: 3 Hours Max.			Marks: 100			
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions				Marks K – Level		
1.					CO1	
2.	2. List the components that formulate the data center.				CO1	
3. Define Seek Time.				<i>K1</i>	CO2	
4. List the types of storage virtualization.				K1	CO2	
5.	5. What is zoning? When is soft zoning preferred over hard zoning?				CO3	
6.	6. Compare the topologies of FC-SAN and IP-SAN.			K2	CO3	
7.	7. Define MTBF.			<i>K1</i>	CO4	
8.	Wha	t do you mean by RPO?	2	<i>K1</i>	CO4	
9.	State	the key management activities of a data center.	2	K1	CO5	
10.	10. Infer the purpose of Storage network.			K2	CO5	
11.	a)	PART - B (5 × 13 = 65 Marks) Answer ALL Questions Describe in detail about Data Center Infrastructure. OR	13	K2	CO1	
	b)	Explain how information is managed using information life cycle. Discuss its characteristics and advantages.	13	K2	CO1	
12.	a)	Illustrate about the various Physical components of disk drive and their function.	13	K2	CO2	
	1.	OR	13	K2	coz	
	b)	Demonstrate the functions of different levels of RAID.	13	K2	CO2	
13.	a)	What is FC-SAN? Explain the components of FC SAN infrastructure. OR	13	K2	CO3	
	b)	Summarize the operating principles of NAS file sharing protocols.	13	K2	CO3	

14.	a) i)	Distinguish between business continuity (BC) and disaster recovery.	7	<i>K4</i>	CO4				
	ii)	Examine the architecture of backup/recovery and the different to							
		pologies of a storage system.							
OR									
	b)	Analyze the role of local Replication technologies in ensuring information availability and quality of service.	13	K4	CO4				
15.	5. a) Apply the critical security attributes for an information system and discuss how it ensures security.								
		OR							
	1 \		13	ν_2	CO5				
	b)	Identify the role of Industry standards in monitoring data center.	13	N3	COS				
		$PART - C (1 \times 15 = 15 Marks)$							
16.	a)	Describe in detail about storage virtualization technologies and also list its challenges.	15	K2	CO6				
		OR							
	1)		15	νn	CO6				
	b)	List and Explain the functions of different storage security domains.	IJ	ΛZ					