

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)
B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025
Eighth Semester
Computer Science and Engineering
CCS367 - Storage Technologies
Regulations - 2021

Duration : 3 Hrs**Maximum : 100 Marks****PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

Q.No	Questions	BLT	CO	Marks
1.	Compare Structured and Unstructured data.	L2	1	2
2.	What is a Software-Defined Data Center?	L1	1	2
3.	What are the features of intelligent storage system?	L1	2	2
4.	Differentiate between scale-up and scale-out architecture.	L2	2	2
5.	Write about FC SAN and IP SAN.	L1	3	2
6.	List the Data storage process in OSD.	L1	3	2
7.	Why is business continuity important for organizations?	L2	4	2
8.	Mention the key benefit of DRaaS.	L2	4	2
9.	List the primary goals of information security.	L1	5	2
10.	Why is compliance an important aspect of storage systems, and what are its key considerations?	L2	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11.	a i Describe various cloud deployment models and illustrate each with a relevant example.	L2	1	8
	i Explain the evolution of storage technology and architecture in detail.	L2	1	8
	Or			
	b Write short notes on the following:	L2	1	16
	a) Big Data Analytics and its benefits			
	b) Big Data in the real world			
	c) Types of big data analytics			
	d) Big data Analytics tools			
12.	a i Explain the architecture, data addressing techniques, and performance aspects of both hard disk drives and solid-state drives.	L3	2	8

	i	Compute the stripe size of a five-disk RAID 5 set with a strip size of 32 KB? Compare it with the stripe size of a five-disk RAID 0 array with the same strip size.	L3	2	8
		Or			
	b i	Write short notes on the key components and functionalities of intelligent storage systems.	L2	2	8
	i	How do modern enterprises leverage scale-out storage to meet the demands of cloud-native applications and unstructured data growth?	L2	2	8
13.	a	In a real-world IT environment, how to decide when to use block-based, file-based, or unified storage systems, based on the types of data and application requirements.	L3	3	16
		Or			
	b	How can knowledge of FC and iSCSI topologies be applied to design a robust and fault-tolerant SAN solution for a growing financial company?	L3	3	16
14.	a i	Brief about backup architecture and their methods.	L2	4	8
	i	If a company experiences a ransomware attack, how can a solid business continuity strategy minimize downtime and data loss? Explain.	L3	4	8
		Or			
	b i	Discuss the various strategies used in data migration and phases of data migration process.	L2	4	8
	i	What archival strategy is recommended for a research organization that stores large volumes of scientific data over decades? Explain.	L3	4	8
15.	a	Discuss the various methods to secure the backup, recovery and archive the information.	L3	5	16
		Or			
	b	Explain the functions and process involved in storage infrastructure management.	L3	5	16