Course Code:18CS8,22

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, CANARA ENGINEERING COLLEGE

rogramme: B.E. (CS&E)

Semester: VIII

CIE: TEST-1 Month: APRIL 2022

Course Title: Storage Area Networks

Duration: 1 Hour 30 min

Max. Marks: 50

	viax. Marks: 50	
Q. No.	Note: Answer any ONE full question from each part Question	Marks
	Part-A	
✓ 1.a	Explain with neat diagram the Evolution of storage Architecture	
✓ 1.b	Explain the Core Elements of Data center and key characteristics of Data center.	12
✓ 1.c	List and explain the key management activities of a data center.	12
	detivities of a data center.	6
2	Explain the consent CDU	
2.a	Explain the concept of Disk partitioning and concatenation.	
2.b	With a neat diagram explain the Process of mapping user files to disk storage	12
2.c	Explain Internal and external DAS architecture	12
		6
	Part-B	
√3.a	With a neat diagram explain the components of RAID Array.	
	Consider an application that generates 11,200 IOPS, with 60 percent of them being reads.	5
	1) Show the disk load in RAID1, RAID5 and RAID6	
3.b	If a HDD with the specification of maximum 130IOPS for the application needs to be used.	7
	ii) Show the number of disks required to meet the workload for RAID1, RAID 5 and	,
	RAID6.	
3.c	Illustrate the following RAID levels: RAID1, RAID1+0, RAID0+1, RAID3.	8
	OR	
4.a	Explain Mirroring Technique.	5
4.b	Consider the problem on Consider an application that generates 7200 IOPS, with 60	5
	percent of them being reads. i) Show the disk load in RAID1, RAID5 and RAID6. If a	
	HDD with the specification of maximum 180 IOPS for the application needs to be used, ii)	7
	the number of disks required to meet the workload for RAID1, RAID 5 and RAID6.	
4.c	Explain with neat block diagram the components of Intelligent storage system	8

Course Code: 18C

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, CANARA ENGINEERING COLLEGE

Programme: B.E. (CS&E) Semester: VIII CIE: TEST - I Month: APRIL 2022

Course Title: INTERNET OF THINGS

Duration: 1.5 HOUR

Max. Marks: 50

Note: Answer any ONE full question from each part

Q. No.	Question	Marks	СО	RBTL		
PART - A						
√1.a	Explain the genesis of IOT	10	1	2		
∕ 1.b	What does IOT digitization mean? Elaborate on this concept	10	1	1		
√ 1.c.	Compare different IOT architectures	10	1	2		
	OR			1		
2.a	List the challenges in the field of IOT	10	1	1		
2.b	Explain the drivers behind new network architectures	10	1	2		
2.c	Explain a simplified IOT architecture	10	1	2 .		
X	PART - B					
_ 3.a	List six categories of sensors	10	2	1		
/ 3.b	Explain the characteristics of smart objects	10	2	2		
	OR			, , ,		
4.a	List and explain the trends in smart objects impacting IOT.	10	2	2		
.b	Explain six sensor types	10	2	2		