27. a.	Analyze how flow control works in an FC network.	10	3	2	1,2,3, 4,9,12
b.	(OR) Illustrate the components of CAS? Write the various limitations of CAS.	10	3	2	1,2,3, 4,9,12
28. a.	Illustrate how the backup process is performed in NAS environment.	10	4	4	1,2,3, 4,9,12
	(OR)				
b.	Categorize and explain the various planned and unplanned occurrences of information unavailability in the context of data center operations.	10	4	3	1,2,3, 4,9,12
29. a.	Explain in detail about one way and two way of securing implementation in IP SAN.	10	3	4	1,2,3, 4,9,12
	(OR)				
Ъ.	Develop a checklist for auditing the security of a storage environment with SAN, NAS and ISCSI implementations. Explain how will you perform the audit.	10	3	4	1,2,3, 4,9,12
30. a.	Illustrate the following with necessary diagram  (i) Cloud deployment models  (ii) Cloud service models	5+5	4	5	1,2,9, 12
	(OR)				2
b.	Illustrate the various considerations for selecting the following  (i) Public cloud service provider  (ii) Private cloud service provider	5+5	4	5	1,2,9, 12

\* \* \* \* \*

Reg. No.

## **B.Tech. DEGREE EXAMINATION, MAY 2022**

Fifth to Seventh Semester

## 18CSE360T - INFORMATION STORAGE AND MANAGEMENT

(For the candidates admitted from the academic year 2018-2019 to 2019-2020)

ote: (i) (ii)	Part - A should be answered in OMR sh to hall invigilator at the end of 40 <sup>th</sup> minu Part - B should be answered in answer b	te.		should	be ha	ande	d over
me: 2	½ Hours			Max.	Ma	rks:	75
	$PART - A (25 \times 1 = 1)$	= 25 ]	Marks)	Marks	BL	со	PO
	Answer ALL Q	uesti	ons				
1.	What is the key benefit of virtualizat	ion?		1	1	1	1,9,12
	(A) Improved resource utilization	(B)	Improved performance				
	(C) Enhanced interoperability		Unlimited resource scaling				
2.	A disk drive has a rotational speed of average rotational latency?	f 100	revolution per speed. What is the	1	2	1	1,9,12
	(A) 15 MS	(B)	10 MS				
	(C) 3 MS	(D)	5 MS				
3.	In external DAS architecture, the data	a tran	sfer happens at	1	1	1	1,9,12
	(A) Block level	(B)	Stream level				
	(C) Through parallel bus	(D)	Through serial bus				
4.	The outermost zone is numbered as _			1	1	1	1,9,12
	(A) 0	. ,					
	(C) 10	(D)	8				
5.	The set of rotating platters is sealed in	1	2	1	1,9,12		
	(A) Head disk assembly	` '	Platters				
	(C) Spindle	(D)	Drive assembly controllers				
6.	authentication adds a sec authentication on both directions in I		level of security by adding	1	1	2	1,2,3, 4,9,12
	(A) Unidirectional		Directed				
	(C) Bidirectional	` '	End to end				
	(C) Bidirectional	(D)	End to end				
7.	Which type of file system is faster?			1	2	2	1,2,3, 4,9,12
	(A) Block level	(B)	File level				
	(C) Flat address space	(D)	Hierarchical file system				
8.	The ISCSI session-layer interface authentication, and session m			1	1	2	1,2,3, 4,9,12
	(A) Data maintenance	_	Containment				
	(C) Memory mapping	` /	Target discovery				

9.	Logic partitioning in SAN is called a  (A) Mapping (C) Zoning	s (B) Clustering (D) Divisioning	1	1		1,2,3, 4,9,12	19	<ul><li>Which protocol provides strong auth by using secret key cryptography?</li><li>(A) Kerberos</li></ul>	hentication for client server application (B) TNC	1	1	4	1,2,3, 4,9,12
	(C) Zoming	(D) Divisioning						(C) Firewall	(D) LDAP				
10.	CAS	cated to the administrator through in	1	2		1,2,3, 4,9,12	20	prevents unauthorized swite the fabric	ch from joining any existing switch in	-1	2	4	1,2,9, 12
	<ul><li>(A) SNMP, SMTP or E-mail</li><li>(C) FTP</li></ul>	(B) SNMP (D) STTP						(A) Fabric binding	(B) RBAC	:4			
				,	2	100		(C) Access control list	(D) Users				
11.	An approach for performing a backup  (A) Hypervisor	p in a virtualized environment  (B) Image based backup	1	1		1,2,3, 4,9,12	21	. Which of the following organiz Authentication?	zation does not provide OPEN ID	1	1	5	1,2,9, 12
	(C) Backup and archive	(D) Target based data deduplication						(A) Google	(B) Amazon				
12.	an industry standard TCP/II	P based protocol specifically designed	1	2	3	1,2,3, 4,9,12		(C) Yahoo	(D) IBM				
	for a backup in a NAS environment					7,7,12	22	. The SLA serves as the foundation for	or expected level of service between	1	1	5	1,2,9,
	<ul><li>(A) Network data management protocol</li><li>(C) LAN free based protocol</li></ul>	<ul><li>(B) Simple network management protocol</li><li>(D) Backup topology</li></ul>						<ul><li>(A) Organization and provider</li><li>(C) Consumer and provider</li></ul>	<ul><li>(B) Owner and provider</li><li>(D) Organization and consumer</li></ul>				12
13.		he state of the application when it is	1	2		1,2,3, 4,9,12	- 23	. In cloud storage level,is the the hardware.	e lowest level of storage and closest to	1	2	5	1,2,9, 12
	performed. (A) Archival (C) Hot	<ul><li>(B) Incremental</li><li>(D) Cumulative</li></ul>				7/		(A) Files (C) Blocks	(B) Dataset (D) Objects				
14.	The is the most appropriate	solution when a backup device needs	1	2		1,2,3, 4,9,12	24	is hosted by an organization v		1	2	5	1,2,9, 12
	to be shared among clients.  (A) Application server based backup	(B) Direct attached backup						<ul><li>(A) Externally hosted private cloud</li><li>(C) Community cloud</li></ul>					
	(C) Server less backup	(D) SAN based backup topology					25	. Which one of the following statemen	nt is false about grid computing?	1	1	5	1,2,9, 12
15.	backup copies the data that	at has changed since the last full or	1	2	3	1,2,3,		(A) Does not break complex tasks into small operations	s (B) Enables parallel computing				
	incremental backup which ever has o	occurred more recently.				4,9,12		(C) Is best for large workloads	(D) Enable resources of numerous				
	<ul><li>(A) Incremental</li><li>(C) Backup granularity</li></ul>	<ul><li>(B) Differential</li><li>(D) Recovery process outage</li></ul>							computers in a network to work on a single task at the same				
16.	Linux frameworks can store Kerbe head in records.	ros verification key for an assistance	1	1	4	1,2,3, 4,9,12			time				
	(A) Client	(B) Server						$PART - B (5 \times 10)$	= 50 Marks)	Marks	BL	со	PO
	(C) Keytab	(D) Business template						Answer ALL (	•				
17.	Which of the following is not a dang		1	2	4	1,2,3, 4,9,12	26. a		plication is 64 K/B. The following		4	1	1,2,9, 12
	(A) Disaster	(B) Eavesdropping						-	e disk manufacturer. Average seek time				
	(C) Information leakage	(D) Unchanged default password		1	4	122		IOPS that could be performed with	the = 40 Mb/s. Determine the maximum this disk for the application using this				
18 is a control mechanism on the switches that segments the network into specific paths to be used for the data traffic.		1	1	4	1,2,3, 4,9,12	case as example, explain relationship between disk utilization and I							
	(A) Snooping	(B) Vulnerability						(OR)			-		1.00
	(C) Zoning	(D) Denial of service					t	cache allocation, cache prefetch size	eter cache page size, read versus write and write aside size.	10	3	1	1,2,9, 12
								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					