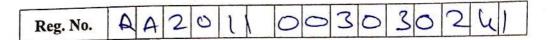


ISM 2022 - ISM 2022.pdf

Information Storage And Management (SRM Institute of Science and Technology)



B.Tech. DEGREE EXAMINATION, DECEMBER 2022

Fifth Semester

18CSE360T - INFORMATION STORAGE AND MANAGEMENT (For the candidates admitted from the academic year 2018-2019 to 2021-2022)

Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed

(ii)	Part - B should be answered in answer booklet.						
Time:	2½ Hours	٠	Max.	Ma	rks:	75	
	$PART - A (25 \times 1 = 25 Marks)$		Marks	BL	со	РО	
	Answer ALL Questions		,	2	1	1	
1	 All cloud computing applications suffer from the inherent intrinsic in their WAN connectivity 	that is	1	2	•	1	
	(A) Noise (B) Propagation						
	(C) Latency (D) Errors						
2	If a disk drives rotational speed is 100 rpm, what is the average latency	rotational	1	4	1	1	
	(A) 0.3 sec (B) 0.5 sec						
	(C) 3 ms (D) 5 ms						
3	3. What is key advantage of disk striping over a single disk?		1	2	1	1	
	(A) Performance (B) Space utilization						
	(C) Protection (D) Availability						
4	4. What three data center management functions are interdependent	?	1	2	1	1	
	(A) Accessibility, scalability and (B) Provisioning, monitor security reporting	oring and		•			
	(C) Integrity, manageability and (D) Configuration, integration, scalability	grity and					
5	5. Which one of the following it not an example of storage virtualization	ation?	1	1	1	1	
	(A) CHS to LBA addressing (B) Virtual machines						
	(C) Host based volume (D) LUN creation management						
(6. Ports operate in data transmission mode with transmit receive (Rx) link	(Tx) and	1	1	2	1	
	(A) Duplex mode (B) Half duplex mode						
	(C) Single mode (D) Hybrid mode						
	7. Logical partitioning in SAN is called as		1	2	2	1	
	(A) Mapping (B) Clustering						
	(C) Zoning (D) Divisioning						
	200						

Note:

(i)

8.	Fc-2 protocol is used for		*	(*)	_	2	1
	(A) Data transmission	(B)	Data encryption/decryption				
1991	(C) Login, discovery	(D)	Framing and flow control				
_	-		•	1	I	2	
9.	Enterprise SAN ensure availability and						
			FC hub				
	(C) FC fabricated switch	(D)	rc				
10.	authentication adds a sec	ond	level of security by adding	1	2	2	1
10.	authentication on both directions of IS	CSII	Protocol				
			Directed				
			End to end				
	(c) Blancollonal	(2)	Zina to the				
11.	Backup method that are based on the	e stag	ge of the application when it is	1	1	3	1
	performed		T.F.				
	(프라이트) (100 min) (100 min) (100 min) - 120 min (100 min) (100	(B)	Incremental				
			Cumulative				
		` '					
12.	An approach for performing a backup	in vi	rtualized environment	1	1	3	1
	(A) Hypervisor	(B)	Image-based backup				
	(C) Backup and archive	(D)	Target based data deduplication				
13.				1	2	3	1
	designed for a backup in a NAS enviro						
	(A) Network data management						
	■14 0 € 1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0		protocol				
	(C) LAN free based protocol	(D)	Backup topology				
1.4			1007 1007 1008 1008 1008 1008 1008 1008	20		_	
14.	results in overloading the ne			1	1	3	1
	application server resources to move t						
	(A) Server based backup						
	(C) Backup targets	(D)	Direct attached backup				
15	What does the number of files to b	- 1	1 1 00		1	3	
15.	What does the number of files to be	e bac	eked up affect in a backup and	1	2	3	
	recovery environment?	· (D)	0.11				
			Catalog size				
	(C) Amount of media	(D)	Number of tape libraries				
16	When someone arrach arra	-4.		,	1	4	1
10.	When someone overhears a conversa information is called	ation	the unauthorized access to this	1		- 00	
	(A) Smaaning	(D)	17.1				
	(C) Eavesdropping		Vulnerability				
			Denial of service	0.			
17.	prevents unauthorized switch	1 from	n joining any existing switch in	1	2.	4	1
	and rubite		in joining any existing switch in				
	(A) Fabric binding	(B)	Rbac				
	(C) Access control list		Users				
18	Which of the following					4	1
10.	Which of the following organization	ation	does not provide open ID	1	1	4	
	(A) Google						
	(C) Yahoo		Amazon				
e 2 of 4		(D)	IBM			arya (81	
			04	8DA5/18	BCSE.	1001	

19.	KDC refers o(A) Kerberos distribution center(C) Kerberos division center		Key division center Key division center		ı	4	1
20.	()	(B)	on Linear function Public key function	1	1	4	1
21.	stages are utilized for wellbeing (A) Cloud security protocols (C) One drive	(B)		1	1	5	1
22.	is hosted by an organization v (A) Externally hosted private cloud (C) Community cloud	(B)	On premise private cloud	1	2	5	1
23.	The SLA servers as the foundation between and (A) Owner and provider (C) Organization and provider	(B)	Organization and consumer	1	1	5	1
24.	In cloud storage level is the level	(B)		1	2	5	1
	(C) Objects	(-)	2.00m				
	Which attribute analysis the application			1	2	5	1
	Which attribute analysis the applicacloud	ations (B)		1	2	. 5	1
	Which attribute analysis the application (A) Application attributes	(B) (D)	s suitability to be ported to the Service attributes Private attributes Marks)	1 Marks	2 BL	co	1 100
	Which attribute analysis the application attributes (A) Application attributes (C) Cloud attributes PART - B (5 × 10 =	(B) (D) = 50 N uesticer cae	Service attributes Private attributes Marks) ons che page size, read versus write,				1 PO
26. a.	Which attribute analysis the application defined (A) Application attributes (C) Cloud attributes PART - B (5 × 10 = Answer ALL Queen A	(B) (D) = 50 N uestice er cae and w s at a ch. It	Service attributes Private attributes Marks) ons che page size, read versus write, rrite a side size. peak of 2 IOPS each and 2000 is estimated that the application reent for other workloads. The	Marks	BL	со	1 PO 1
e6. a. b.	Which attribute analysis the application defined (A) Application attributes (C) Cloud attributes PART - B (5 × 10 = Answer ALL Quality (OR) Elaborate the various cache parameter cache allocation, cache prefetch size at typical users at a peak of 1 IOPS each also experience on overhead of 20 read/write ratio for the application is	(B) (D) = 50 N uestic er cae and w s at a ch. It 0 per 1 2:1.	Service attributes Private attributes Marks) ons che page size, read versus write, rite a side size. peak of 2 IOPS each and 2000 is estimated that the application reent for other workloads. The Calculate RAID corrected IOPS	Marks	BL	со	
e6. a. b.	Which attribute analysis the application delay (A) Application attributes (C) Cloud attributes PART - B (5 × 10 = Answer ALL Quality (OR) Elaborate the various cache parameter cache allocation, cache prefetch size at typical users at a peak of 1 IOPS earlies also experience on overhead of 20 read/write ratio for the application is for RAID I/O, RAID 5 and RAID 6	(B) (D) = 50 N uestic er cae and w s at a ch. It 0 per 2:1.	Service attributes Private attributes Marks) ons che page size, read versus write, rrite a side size. a peak of 2 IOPS each and 2000 is estimated that the application reent for other workloads. The Calculate RAID corrected IOPS ment.	Marks 10	BL 3	со	

	28. a.	Categorize and explain the various planned and unplanned occurrences of information unavailability in the context of data center operations.		4	3	1
		(OR)				
	Ъ.	Relate the ways to share files between host and virtual machine.	10	2	3	1
29. a	29. a.	Develop a check list for auditing the security of a storage environment with	10	3	4	1
		SAN, NAS and iSCSI environment. Explain how you will perform the audit.				
			8			
	1	(OR)		12	-32	
	b.	Illustrate security monitoring with a neat diagram.	10	3	4	1
	30. a.	Analyze the various cloud infrastructure mechanism in detail.	10	4	6	1
	b.	(OR) Explain accessibility monitoring with an example.	10	3	5	1