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B.Tech. DEGREE EXAMINATION, JUNE 2023

Seventh Semester

18CSE442T - CLOUD SECURITY

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:

i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40 minutes.
ii. Part - B and Part - C should be answered in answer booklet.

[im	e: 3 Hours		Max. I	Marks:	: 10
	Part - A (20 × 1 Marl Answer All Qu		Marl	ks BL	C
1.	Infrastructure as a Service- virtualized of physical machine is not a problem, basica (A) Trust zone (C) KVM	computing resources over the internet. The ally, an infrastructure for architects is (B) IAAS (D) IOMMU virtualization	I	prod	1
2.	If an attacker wants to generate a dummy server, what is the name of the attack he c (A) Cryptanalysis (C) VM Theft	request to degrade the performance of the ean use? (B) DoS Attack (D) VM Hijack	1	1	1
3.		does not want to send the plaintext as such, what is the technique he followed to send (B) Confidentiality (D) Access control techniques	1	1	
4.	A rogue service agent (with compromised forward the network traffic that flows with (A) Cloud-based security groups (C) Malicious Service Attacker	or malicious logic) is able to intercept and hin the cloud. (B) Malicious Insider (D) (MITM) Attack	I	}	presid
5.	Full stack application refers (A) Infrastructure as a Service (Iaas) (C) Platform as a service	(B) Software as a Service (Saas) (D) Storage as a service	I	1	2
6.	If a user requested virtual machine, his available resource, which module given direction? (A) Cloud Auditor (C) Cloud Broker	request must be fitted according to the below does the job according with NIST (B) Cloud user (D) Cloud carrier	1	1	2
7.	An organization decides to deploy cloud services within the premises. Which deplo (A) Public (C) Private	platform, they needs to limit the users and syment model suitable for the organization? (B) Community (D) Hybrid	1	1	2
8.	delivers object storage to your (A) S3 Outposts (C) S3 Standard-IA	on-premises AWS Outposts environment. (B) S3 One Zone-IA (D) S3 Standard	10 A	1	2
9.	Complicate the relationship between plantansposition/Permutation operation) as(A) Substitution	aintext and ciphertext. (accomplished by	1	Province of the Control of the Contr	3

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(D) Hash Function

(C) Diffie-Hellman

22.	2. Differentiate Host level security with Network level security.			1	1
21.	List out five risk factors and overcome menvironment.	ethods present in the Cloud Computing	4	1	1
	Part - B (5 × 4 Marks = Answer any 5 Que		Marks	BL	со
20.	Certificate Authority (CA) is (A) An X500 attribute expressing a host or user name, also used as the subject identifier for a digital certificate. (C) A method of validating a certificate by tracing each CA that signs the certificate, up through the hierarchy to the root CA. Also referred to as chain of trust.	(B) A digital certificate that has been signed by the entity that issued it, rather than by a CA.(D) A server that guarantees subject identities by issuing signed digital certificate wrappers for their public keys		i	6
	A formatted encrypted message that validates the information the CA requires to issue a digital certificate. (A) Certificate Signing Request (CSR). (B) Digital certificate (C) Certificate pinning (D) Code signing		1	1	6
18.	Reserved instances are prefers at (A) Unkown workload (C) Known Workload and time	(B) Instant workload (D) Auction time	paried	Ĭ.	5
17.	Phase 5 of SLA Life Cycle is(A) Penalty (C) Monitor	(B) Termination(D) Establishment of SLA	- Second	1	5
16.	Client consists of many interfaces, intern featured computer is called (A) Thin client (C) Thick Client	memory, I/O devices etc. It is a full- (B) Hardware Client (D) Software client	proof	Year	4
15.	An attacker gains access to your account, hand redirect your clients to illegitimate sites (A) Trojan horse (C) VM theft		***	Perst	4
14.	Signature based detection is based on	(B) Pre programmed list of threat (D) Network layer threats	1	hoost	4
13.	What are the different ways to classify an IDS? (A) Zone based (B) Host & Network based (C) Network & Zone based (D) Level based			1	4
12.	SHA-1 produces a hash value of (A) 256 bits (C) 180 bits	(B) 160 bits (D) 128 bits	1	1	3
11.	An encryption method that hides a secret message within an open message is (A) Symmetric Cipher (B) Product cipher (C) Concealment cipher (D) Running key cipher				3
10.	A mathematical function that can be constant (A) Hash Function (C) Private key Cryptography	nt output performed in one direction is (B) Public key cryptography (D) Running key cipher	I	reset	3

23.	Write down the constraints for creating an S3 bucket in AWS.	4	1	2		
24.	Discuss any two Deployment models in cloud computing.	4	and a	2		
25.	Draw asymmetric key block diagram for encryption and Authentication.	4	į	3		
26.	List out Cloud storage - Business Benefits and personal benefits.	4	1	4		
27.	How Service Level Agreements playing important role in Cloud computing? draw the life cycle of SLA.	4	Service of the servic	5		
	Part - C (5 × 12 Marks = 60 Marks) Answer All Questions					
28.	a. Draw the Data life cycle and explain each stage of it. (OR)	12	1	1		
	b. How is Trust management important in Cloud Service providers? And explain any three trust evaluation methods.					
29.	a.Draw NIST cloud computing reference model and explain.	12	1	2		
	(OR) b.Discuss Architectural Design Challenges in deployment of Cloud Data center.					
30.	a. i. Differentiate stream cipher and block cipher. [4 Marks] ii. Draw and explain Cipher Block Chaining Mode operation. [8 Marks]	12	1	3		
	b. How Hashing differ from encryption? Discuss role of hashing function in integrity and Digital signature.					
31.	a. i. How is security governance enforced in cloud computing? [6 Marks] ii. Write notes on Cloud Data Loss Prevention. [6 Marks] (OR)	12	I	4		
	b.Discuss intrusion detection and prevention system.					
32.	a. List out the X.509 certificate benefits and discuss its fields of X.509 Authentication Service Certificate. (OR)	12	1	5		
	b. Explain main components of Eucalyptus cloud architecture with neat diagram? How Eucalyptus environment differs from other platform in cloud computing.					
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