



BRAINWARE UNIVERSITY

Term End Examination 2023 Programme - B.Tech.(CSE)-2018/B.Tech.(CSE)-2019 Course Name - Cloud Security Course Code - PEC-701B (Semester VII)

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Time: 3:0 Hours

Full Marks: 70 [The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.] Group-A 1 x 15=15 (Multiple Choice Type Question) Choose the correct alternative from the following: (i) Write the option in which an architecture in which no special machines manage network resources is known as b) Tightly-Coupled a) Space-Based d) Peer-to-Peer c) Loosely-Coupled (ii) Write the option in which transparency that allows movement of resources and clients within a system is called b) Performance Transparency a) Concurrency Transparency d) Mobility Transparency c) Replication Transparency (iii) Write the option in which all cloud computing applications suffer from the inherent that is intrinsic in their WAN connectivity. b) Latency a) Propagation d) None of these c) Noise (iv) Select from the following option in Which billing model is based on the packaging of computing resources (i.e. computation and storage) and the amount of those resources used? b) Subscription a) Metered d) Per user based c) Recurring (v) Choose the option in Which of the following is the operational domain of CSA? b) Portability and interoperability a) Scalability d) None of these c) Flexibility enables batch processing, which greatly speeds (vi) Select the option in which up high-processing applications. b) Elasticity a) Scalability d) Utility

(vii) Select the option in which an operating system running on a Type _____ VM is full

c) Reliability

virtualization.

a) 1	b) 2	
c) 3	d) All of these	
(viii) Select the option in which of the following abstraction?	is the most widely used technique	for
a) Load balancing	b) Load scheduling	
c) Load scaling	d) All of these	
(ix) Write the option in which a company need	s to provide IT services to a worldw	ide
customer base utilizing a diverse set of dev can help the company deliver such services	ices. Which attribute of cloud comp	outing
a) Pervasiveness		
c) Vertical scaling of application servers	b) Flexible pricing	ion conver
(x) Select from the following option in which of	d) Horizontal scaling of applicat	ion servers
a) Virtuall ogiv VI V		
(xi) Select the option in which of the following:	b) VMware ESX	
(xi) Select the option in which of the following i	d) LynxSecure	
a) CloudWatch	s also referred to edge computing?	
c) CloudSpot		
	d) CloudWave	
(xii) Choose the option in which applications that low margins and usually low risk are	t work with cloud computing that ha	ave
a) High touch	b) Low touch	
c) Moderate touch	d) None of these	
(xiii) Select from the following option, What is the automated process related to cloud compute	e definition of provisioning as an ing?	
 a) It moves data from one cloud to another c) It adds security constraints to a cloud environment 	b) It provides server consolidationd) It handles computing resource	n capability
(xiv) Select What is a common design element oft	management processes	
a) Single tiered		
c) Synchronous web services	b) Terminal emulators	
(xv) Write the option in which a dynamic connect networks, is called	 d) Asynchronous web services from that grows into dynamic network 	s of
a) Cyber Cycle	b) Internet of Things	
c) Cyber-Physical System	d) Multithreading	
Grou		
(Short Answer T		3 x 5=15
Describe briefly about Reservations with VM. Illu Cloud(EC2).		(3)
3. Evaluate Data Migration and which type of best during a migration?		ata (3)
4. Write what do you mean by VM migration ? Expl	ain	(2)
5. What is virtual desktop infrastructure? Explain		(3)
6. Show the design of amazon VPC.		(3) (3)
OF Express the role of security groups and NACL in a		(3)
and NACL in a	mazon VPC.	(3)
Grou	р-С	
(Long Answer Ty	pe Questions)	5 x 8=40
7. Enumerate the functions of VPN.		
8. Explain the CIA model of cloud security.		(5)
State what do you mean by role-based access co	introl ?	(5)
		(5)

10. How authentication is different from authorization in a cloud computing environment?	
11. Classify the functionalities of Amazon S3	(5)
12. Devise the different levels of infrastructure security.	(5)
13. Access DoS attack in cloud computing ?	(5)
2017 Recess Dos attack in cloud computing ?	(5)
OR OR	. ,
Assess the role of Hypervisor in cloud computing and their types.	(5)
14. Express the challenges of SaaS Paradigm	
OR	(5)
What roles does trust mechanisms play in a cloud environment?	(5)

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