



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme - B.Tech.(CSE)-2018/B.Tech.(CSE)-2019 **Course Name – Cloud Security** Course Code - PEC-701B (Semester VII)

Full Marks: 60 Time: 2:30 Hours [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 (Multiple Choice Type Question) 1 x 15=15 1. 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 a) Space-Based b) Tightly-Coupled c) Loosely-Coupled d) Peer-to-Peer (ii) Write the option in which transparency that allows movement of resources and clients within a system is called a) Concurrency Transparency b) Performance Transparency c) Replication Transparency d) Mobility Transparency (iii) Write the option in which all cloud computing applications suffer from the inherent that is intrinsic in their WAN connectivity. a) Propagation b) Latency c) Noise d) None of these (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? a) Metered b) Subscription c) Recurring d) Per user based (v) Choose the option in Which of the following is the operational domain of CSA? a) Scalability b) Portability and interoperability c) Flexibility d) None of these (vi) Select the option in which _____ enables batch processing, which greatly speeds up high-processing applications. a) Scalability b) Elasticity c) Reliability d) Utility (vii) Select the option in which an operating system running on a Type _____ VM is full virtualization. a) 1

d) All of these

c) 3

(viii) Select the option in which of the following is the abstraction?	e most widely used technique for		
a) Load balancing c) Load scaling	b) Load scheduling d) All of these		
(ix) Write the option in which a company needs to customer base utilizing a diverse set of devices can help the company deliver such services?			
a) Pervasivenessc) Vertical scaling of application servers(x) Select from the following option in which of the	b) Flexible pricingd) Horizontal scaling of application sermed following is Type 2 VM?	vers	
a) VirtualLogix VLXc) Xen(xi) Select the option in which of the following is al	b) VMware ESX d) LynxSecure so referred to edge computing?		
a) CloudWatch c) CloudSpot (xii) Choose the option in which applications that w	b) CloudFront d) CloudWave	1	
margins and usually low risk area) High touch	 b) Low touch		
c) Moderate touchd) None of these(xiii) Select from the following option, What is the definition of provisioning as an automated process related to cloud computing?			
a) It moves data from one cloud to another c) It adds security constraints to a cloud environment (xiv) Select What is a common design element ofter	 b) It provides server consolidation cape d) It handles computing resource management processes found in cloud architectures? 	ability	
a) Single tieredc) Synchronous web services(xv) Write the option in which a dynamic connection networks, is called	b) Terminal emulators d) Asynchronous web services n that grows into dynamic networks of		
a) Cyber Cyclec) Cyber-Physical System	b) Internet of Thingsd) Multithreading		
Group-B			
(Short Answer Type Questions)		3 x 5=15	
2. Describe briefly about Reservations with VM. Illustrate Amazon elastic Compute Cloud(EC2).		(3)	
3. Evaluate Data Migration and which type of best practices should be used to protect data during a migration?		(3)	
4. Write what do you mean by VM migration ? Explain5. What is virtual desktop infrastructure? Explain6. Show the design of amazon VPC.		(3) (3) (3)	
Express the role of security groups and NACL in an	•	(3)	
Group-C (Long Answer Type Questions) 5 x 6=:			
 Enumerate the functions of VPN. Explain the CIA model of cloud security. How authentication is different from authorization. Classify the functionalities of Amazon S3 Devise the different levels of infrastructure security. Access DoS attack in cloud computing? 	· -	(5) (5) (5) (5) (5)	

Assess the role of Hypervisor in cloud computing and their types.	
