Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment	No	•
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Faculty of Engineering End Sem (Even) Examination May-2019 CS3EL10 Cloud Computing

Programme: B.Tech. Branch/Specialisation: CSE

Duration: 3 Hrs. Maximum Marks: 60

-	- •	•	rs of
i.	describes a clou	ad service that can only be accessed by a	1
	limited amount of people.		
	(a) Data center (b) Private cloud		
	(c) Virtualization	(d) Public cloud	
ii.	Which of the following can be considered PaaS offering?		1
	(a) Google Maps	(b) Gmail	
	(c) Google Earth	(d) Google play store	
iii.	Which of the following type of virtualization is also characteristic		1
of cloud computing? (a) Storage (b) Application			
		(b) Application	
	(c) CPU	(d) All of these	
iv.	An operating system runn	ning on a Type VM is a full	1
	virtualization.		
	(a) 1 (b) 2	(c) 3 (d) All of these	
v.	off ering provides	the tools and development environment	1
	to deploy applications on a	another vendor's application.	
	(a) PaaS (b) IaaS	(c) CaaS (d) All of these	
vi.	vi. The technology used to distribute service requests to resources		1
	referred to as:		
	(a) Load performing	(b) Load scheduling	
(c) Load balancing (d) None of these		(d) None of these	
	i. ii. iv. v.	i describes a cloud limited amount of people. (a) Data center (c) Virtualization ii. Which of the following case (a) Google Maps (c) Google Earth iii. Which of the following ty of cloud computing? (a) Storage (c) CPU iv. An operating system runn virtualization. (a) 1 (b) 2 v off ering provides to deploy applications on a (a) PaaS (b) IaaS vi. The technology used to deferred to as: (a) Load performing	limited amount of people. (a) Data center (b) Private cloud (c) Virtualization (d) Public cloud ii. Which of the following can be considered PaaS offering? (a) Google Maps (b) Gmail (c) Google Earth (d) Google play store iii. Which of the following type of virtualization is also characteristic of cloud computing? (a) Storage (b) Application (c) CPU (d) All of these iv. An operating system running on a Type VM is a full virtualization. (a) 1 (b) 2 (c) 3 (d) All of these v off ering provides the tools and development environment to deploy applications on another vendor's application. (a) PaaS (b) IaaS (c) CaaS (d) All of these vi. The technology used to distribute service requests to resources is referred to as: (a) Load performing (b) Load scheduling

P.T.O.

	vii.	To find the best security-as-a-service offering for your organization:	1	
		(a) Ask the vendor what they recommend		
		•		
		(b) Assess your requirements, do a risk assessment and a		
		cost/benefit analysis of the options		
		(c) Find the cheapest monthly option and use whatever is offered with that service		
	:::	(d) Ask your peers and do exactly what they're doing	1	
	viii.	Using a cloud provider for security services is always:		
		(a) Cheaper than doing it on-premise		
		(b) More secure than doing it on-premise		
		(c) The right thing to do		
	•	(d) A way to impress your boss	1	
	ix.	serves as a PaaS vendor within Google App Engine	1	
		system.		
		(a) Google (b) Amazon (c) Microsoft (d) Azure	1	
	х.	Google Docs is a type of cloud computing.	1	
		(a) True (b) False		
Q.2		Attempt any two		
Q.2	i.	Attempt any two: What are the five essential characteristics of Cloud Computing	5	
1.	1.	as per NIST? Explain each of them.	3	
	ii.	How to predict protein structure in cloud application? Explain	5	
	11.	with diagram.	J	
	iii.	Define cloud deployment model with suitable diagram and	5	
	111.	working.	J	
		working.		
Q.3	i.	What is the need of Compute Virtualization? Differentiate	4	
Q .5	1.	between a virtualized and non-virtualized machine.	•	
	ii.	How to achieve para-virtualization. List some advantages and	6	
	11.	disadvantages of para-virtualization.		
OR iii.		Write short note on:	6	
-1 (111,	(a) Capex (b) Opex,	J	
		(a) Capen,		

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Q.4	i.	What is BaaS in cloud? How ease of recovery, affordability services are useful in cloud environment.			
	ii.	Define SLA lifecycle with suitable example and diagram.	6		
OR	iii.	What are DRaaS services in cloud? Explain types of DRaaS.	6		
Q.5	i.	Define in short: (a) Identity management (b) Access control	4		
	ii.	List various security issues in Cloud. Explain Each of them with diagram and example.	6		
OR	iii.	Define at least six ways to secure virtual machine and data from outside world.	6		
Q.6		Write short note on any two:			
	i.	Google app engine	5		
	ii.	Xen hypervisor	5		
	iii.	Open stack.	5		

Marking Scheme CS3EL10 Cloud Computing

Q.1	i.	describes a cloud service that can only be accessed by a				
		limited amount of people.				
		(b) Private cloud				
	ii.	Which of the following can be considered I	PaaS offering?	1		
		(a) Google Maps		1		
	iii.	Which of the following type of virtualization is also characteristic				
		of cloud computing?				
		(d) All of these				
	iv.	An operating system running on a Type _	VM is a full	1		
		virtualization.				
		(a) 1		1		
	v.	offering provides the tools and development environment				
		to deploy applications on another vendor's application.				
		(b) IaaS				
	vi.	The technology used to distribute service requests to resources is				
		referred to as:				
		(c) Load balancing		_		
	vii.	To find the best security-as-a-service	e offering for your	1		
		organization:				
		(b) Assess your requirements, do a ri	sk assessment and a			
	viii.	cost/benefit analysis of the options Using a cloud provider for security services	s is always.	1		
	V 1111.	(b) More secure than doing it on-premise	is always.	_		
	ix.	serves as a PaaS vendor within Google App Engine				
		system.				
		(a) Google				
	х.	Google Docs is a type of cloud computing.				
		(a) True				
Q.2		Attempt any two:				
	i.	Five essential characteristics of Cloud Computing as per NIST				
			2 marks			
		Explanation	3 marks			
	ii.	To predict protein structure in cloud applica	ation with diagram	5		
	iii.	Cloud deployment model with diagram	2 marks	5		
		Working.	3 marks			

Q.3	i.	Need of Compute Virtualization	2 marks	4
		Differentiate B/w a virtualized and non-virtu	ualized machine	
			2 marks	
	ii.	To achieve para-virtualization	2 marks	6
		Advantages of para-virtualization	2 marks	
		Disadvantages of para-virtualization.	2 marks	
OR	iii.	Write short note on:		6
		(a) Capex	3 marks	
		(b) Opex,	3 marks	
Q.4	i.	BaaS in cloud	1.5 marks	4
		Ease of recovery, affordability services	are useful in cloud	
		environment	2.5 marks.	
	ii.	SLA lifecycle with suitable example	3 marks	6
		Diagram.	3 marks	
OR	iii.	DRaaS services in cloud	3 marks	6
		Types of DRaaS.	3 marks	
Q.5	i.	Define in short:		4
		(a) Identity management	2 marks	
		(b) Access control	2 marks	
	ii.	Security issues in Cloud	3 marks	6
		Explanation with diagram and example.	3 marks	
OR	iii.	At least six ways to		6
		Secure virtual machine	3 marks	
		data from outside world	3 marks	
Q.6		Write short note on any two:		
_	i.	Google app engine		5
	ii.	Xen hypervisor		5
	iii.	Open stack.		5
