Total No. of Questions: 6

Total No. of Printed Pages:2

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Faculty of Engineering End Sem Examination May-2023

CS3EL12 / CS3EL10 Cloud Computing

Programme: B.Tech. Branch/Specialisation: CSE All

Duration: 3 Hrs. Maximum Marks: 60

Q.1 (MCC		ernal choices, if any, are indicated. Answer stead of only a, b, c or d. Assume suitable datheir usual meaning.	
Q.1 i.	Acloud combines	multiple clouds where those clouds retain	1
	their unique identities but are	bound together as a unit.	
	(a) Public (b) Private	(c) Hybrid (d) Community	
ii.	Which of the following are the	ne features of cloud computing?	1
	(a) Security	(b) Availability	
	(c) Large Network Access	(d) All of these	
iii.	Which of the following is model?	the most refined and restrictive service	1
	(a) PaaS (b) IaaS	(c) SaaS (d) None of these	
iv.	How can you monitor networ	k traffic in your VPC?	1
	(a) Amazon VPC feature	(b) Amazon VPC Flow-Logs feature	
	(c) Amazon VPC frames	(d) Amazon VPC fraction flow-function	
v.	Cloud computing is a concep	ot that involves pooling physical resources	1
	and offering them as which s	ort of resource?	
	(a) Cloud (b) Real	(c) Virtual (d) None of these	
vi.	Which of the following mo	odel consists of the service that you can	1
	access on a cloud computing	platform?	
	(a) Deployment	(b) Service	
	(c) Application	(d) None of these	
vii.	What is the most important c	oncern of cloud computing?	1
	(a) Cost (b) Space	(c) Security (d) Platform	
viii.	Which of the following is key	y mechanism for protecting data?	1
	(a) Access control	(b) Auditing	
	(c) Authentication	(d) All of these	

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	ix.	Which of the following uses an authen	itication device?	1
		(a) Amazon Elastic MapReduce (b) Amazon Mechanical Turk	
		(c) Amazon DevPay (d) Multi-Factor Authentication	
	х.	Which of the following allows you to	o create instances of the MySQL	1
		database to support your Web sites?		
		(a) Amazon Elastic Compute Cloud		
		(b) Amazon Simple Queue Service		
		(c) Amazon Relational Database Servi	ice	
		(d) Amazon Simple Storage System		
		(c) i minimum umpre uteringe upstern		
Q.2	i.	Define Cloud computing with its di	ifferent deployment models with	4
₹		example.	mierone depreyment interes with	•
	ii.	Write application of cloud computing	in different areas	6
OR	iii.	How protein structure prediction can be		6
OK	111.	Trow protein structure prediction can e	to done in cloud computing	U
Q.3	i.	Differentiate between full and para vir	tualization	4
Q.5	ii.	What is the use of hypervisors in achieving virtualization?		6
OR	iii.	Define the following:	eving virtualization:	6
OK	111.	2	b) Cloud interoperability	U
		(c) Capex & opex	b) Cloud interoperatinity	
		(с) Сарех & орех		
Q.4	i.	Explain how user can take advantage	of SaaS service available in cloud	3
ζ.,	1.	computing with example.	or saus service available in croad	•
	ii.	What is the role of SLA in cloud comp	outing? Explain with its Lifecyle	7
OR	iii.	Explain cloud architecture using SaaS		7
OK	111.	Explain cloud architecture using Saas.	, rads, rads & other services.	,
Q.5	i.	What do you understand by vulnerabil	ity in any network?	4
Q.5	ii.	Explain in detail what is security and		
	11.	and how to resolve it?	i trust issues in cloud computing	U
OR	iii.	How to handle security in virtual envir	ronmant?	6
OK	111.	flow to handle security in virtual cirvin	ronnent:	U
Q.6		Attempt any two:		
۷.0	i.	What is Xen hypervisor? What are its	11505?	5
	ii.	What are the services provided by AW		5
		-		
	iii.	What are different cloud application of	development platforms available?	5
		Explain with example.		

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Marking Scheme CS3EL12 / CS3EL10 - Cloud Computing

Q.1	i)	c) Hybrid	1
	ii)	d) All of the mentioned	1
	iii)	a) PaaS	1
	iv)	b) Amazon VPC Flow-Logs feature	1
	v)	c) virtual	1
	vi)	b) Service	1
	vii)	c) security	1
	viii)	d) All	1
	ix)	d) Multi-Factor Authentication	1
	x)	c) Amazon Relational Database Service	1
Q.2	i.	Cloud computing definition -1 mark	4
		3 deployment model -1 mark each	
	ii.	6 applications in different areas – 1 mark each	6
OR	iii.	Protein structure prediction with algorithm- 4 marks diagram - 2 marks	6
Q.3	i.	At least 4 differences -1 mark each	4
	ii.	Role of hypervisor – 4mark diagram – 2mark	6
OR	iii.	cloud broker - 2marks	6
		cloud interoperability - 2marks	
		capex & opex - 2marks	
Q.4	i.	SaaS example from any cloud computing service available – 3marks	3
	ii.	SLA role- 3 marks, lifecycle – 4marks	7
OR	iii.	Cloud architecture- 4 marks, IaaS- 1 mark, PaaS-1 mark, SaaS-1 mark	7
Q.5	i.	Vulnerability definition -3 marks and example-1 mark	4
V .5	ii.	Security issues -3marks, resolve- 3 marks	6
OR	iii.	Security – 3marks, virtual environment -3 marks	6
\sim 1	111.	Society Singles, through out in the single Singles	•

Q.6			
	i.	Define xen hypervisor with example -5marks	5
	ii.	AWS services (atleast 3 service) - 5marks	5
	iii.	Application development platforms – 5marks	5
