Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, July 2020

Course: Cloud Architecture and Deployment Models

Course Code: CSVT 2006

Programme: B.Tech-CSE+ IoT Max. Marks: 100 Instructions: Semester: IV Time: 2hr

Μ	What is the full form	National	in	National	in	National	in	None	с
С	of NIST	Institute of	с	Institute of	с	Institute	с	of	0
		standards and	0	services and	0	of sales	0	the	rr
		Technologies	rr	Technology	rr	and	rr	abov	е
		0	е	07	е	Technol	е	e	ct
			ct		ct	ogy	ct		
Μ	According to NIST	either 3 or 5	in	neither 4 nor 5	in	all the	in	None	С
С	how many essential		с		с	above	с	of	о
	characteristics of		о		о		о	the	rr
	cloud computing		rr		rr		rr	abov	e
			е		е		е	е	ct
			ct		ct		ct		
Μ	Amazon web Service,	network	in	resource sharing	in	on	in	both	С
С	Microsoft, IBM,	access	с		с	demand	с	1 and	о
	Salesforce.com etc		о		о	self	о	2	rr
	are not the example		rr		rr	service	rr		e
	of		е		е		е		ct
			ct		ct		ct		
Μ	Storage, network	Resource	in	on demand	in	public	in	None	С
С	bandwidth can be	sharing	С		С		С	of	0
	used by any number		о		о		0	the	rr
	of customers and		rr		rr		rr	abov	е
	without knowing the		е		е		е	е	ct
	exact location of that		ct		ct		ct		
	resource. This is the								
	example of which								
	service								
Μ	This service provide	Measured	in	on demand	in	all the	in	None	С
С	reports for both cloud	devices	С		С	above	С	of	0
	brokers and		0		0		0	the	rr
	consumers		rr		rr		rr	abov	е
			е		е		е	е	ct
			ct		ct		ct		
	What is a public cloud	A multi-	in	A cloud	in	all the	in	None	С
С		tenant cloud	С	formation that	С	above	С	of	0
		environment	0	cant be seen	0		0	the	rr
		accessed over	rr	across the globe	rr		rr	abov	e
		the internet	e		e		e	е	ct
			ct		ct		ct		

М	Which of the	laas	in	Paas	in	Saas	in	None	
		IddS		rdd5	in	2992	in	of	С
	following acronyms		С		С		С	-	0
	refers to a software		0		0		0	the	rr
	distribution model in		rr		rr		rr	abov	e
	which a cloud		e		е		е	е	ct
	provider manages and		ct		ct		ct		
	hosts an app that								
	users access via the								
	intranet								
Μ	Which of the	Vagrant	in	RightScale	in	Docker	in	None	с
С	following tools does		с		с		С	of	0
	offer features to track		0		о		0	the	rr
	and manage public		rr		rr		rr	abov	е
	cloud costs?		е		е		е	e	ct
			ct		ct		ct		
Т	A multi-cloud strategy	FALSE	Т						
	is not the same as		R						
	hybrid cloud		υ						
			Е						
Т	Open source tools	FALSE	Т						
	cant be used to		R						
	manage private and		U						
	public clouds		E						
	Enterprises can	FALSE	Т						
	physically ship their	TALSE	R						
	data to some private		U						
	cloud providers to		E						
			L						
	upload that data into the cloud.								
	Which of the	Redundant	in	Redundant	in	all the	in	None	с
								of	-
	following feature	networks	С	name servers	С	above	С		0
	make cloud-based		0		0		0	the	rr
	storage systems not		rr		rr		rr	abov	e
	reliable?		e		e		e	е	ct
	A	OFT	ct	DUN	ct		ct	N	• •
	A is a	GETs	in	PUN	in	LUN	С	None	in
	logical unit that		С		С		0	of	С
	serves as the target		0		0		rr	the	0
	for storage		rr		rr		e	abov	rr
	operations, such as		е		е		ct	е	е
	the SCSI protocol		ct		ct				ct
	READs and WRITEs								
	A logical unit number	FALSE	Т						
	(LUN) is a logical drive		R						
	that not represents a		U						
	partition of a physical		Е						
	drive?								
<u> </u>	Which of these is a	Automated	in	Loose Coupling	in	Both a	С	all	in
	wither of these is a		1		1 -	ما ام مر م			_
М	IDEAL cloud	Management	С		С	and b	0	the	С
M C		Management	с о		с о	and b	rr	abov	с о

			-				-		
			e		e		e		e ct
-	This sam is a maxial a	FALCE	ct T		ct		ct		ct
Т	This service provide	FALSE							
F	reports for both cloud		R						
	brokers and		U						
	consumers	- "	E						
Μ	Which of the	Reading	in	Presentation	in	all the	с	Writi	in
С	following is a pattern	Layout	с	Layout	с	above	0	ng	С
	layout?		0		0		rr	Layo	0
			rr		rr		е	ut	rr
			е		е		ct		e
			ct		ct				ct
Т	Every pattern not	FALSE	Т						
F	describes aspects of		R						
	the user group, the		U						
	cloud runtime		Е						
	environment, or the								
	cloud application.								
Μ	Which of these steps	Pattern	in	Pattern	in	Pattern	с	None	in
С	includes the actual	Language	с	Language	с	Writing	о	of	С
	creation of a pattern	Design	о	Revision	о		rr	the	0
	document?		rr		rr		е	abov	rr
			е		е		ct	е	е
			ct		ct				ct
Μ	Resource replication	Enhanced	с	Downgraded	in	Kept	in	None	in
С	is performed when an		о	-	с	constant	с	of	с
	IT resource's		rr		о		о	the	0
	availability and		е		rr		rr	abov	rr
	performance need to		ct		е		е	е	e
	be .				ct		ct		ct
Μ	This ease of	Decreased,	in	Increased,	in	Increase	с	all	in
С	manipulation and	slowly	с	slowly	с	d,	о	the	с
	replication of	,	о	,	о	rapidly	rr	abov	о
	virtualization		rr		rr	. ,	е	е	rr
	technology enables		е		е		ct	-	е
	agility in the		ct		ct				ct
	migration and								
	deployment of a								
	virtual machine's new								
	instances by being								
	able to scale								
	out and up.								
Μ		Integrated life	с	Anchored	in	all the	in	None	in
C	provides facilities as a	cycle	0	lifecycle	c	above	c	of	c
	properly combined	management	rr	platform	c o	above	0	the	c o
	and properly	management	e	placioni	rr		rr	abov	rr
	regulated stack along		e ct				e	e	
	with its personal				e ct		e ct	C	e ct
	•						ιι		
	programming interfaces and								
	middleware.								

N /	The CCRA consists of	The convers		Contrail	in	all the	in	Nana	in
M		The servers	c		in		in	None of	in
С	the hardware		0	FullStack	c	above	c	-	C C
	platforms, including		rr	software	0		0	the	0
			e		rr		rr	abov	rr
			ct		e		e	е	e
	TI 000 1	54165	_		ct		ct		ct
Т	The CCRA in a	FALSE	Т						
F	regional POP contains		R						
	only Contrail nodes		U						
	and Contrail Service		E						
	Orchestration nodes.	54165	_						$\left  - \right $
T	In a redundant	FALSE	Т						
F	installation there is		R						
	not only one instance		U						
	of database is		E						
	created.								
Т	The Contrail Service	TRUE	F						
F	Orchestration Node		A						
	supports multiple		L						
	VMs		S						
Щ			E						
Т	Anchored life cycle	FALSE	Т						
F	platform are not		R						
	based on business		U						
	logic at center of the		Е						
	approach								
Μ	where does the	cloud service	in	cloud service	С	infrastru	in	None	in
С	service creatio tool	provider part.	С	creator part	0	cture	С	of	С
	reside in bss?		0		rr	layer	0	the	0
			rr		е		rr	abov	rr
			е		ct		е	е	е
			ct				ct		ct
Μ	where does pricing of	BSS	С	cloud service	in	transitio	in	API	in
С	cloud service does		0	integration tool	с	n	С		С
	lies		rr		0	manage	0		о
			е		rr	r.	rr		rr
			ct		е		е		е
					ct		ct		ct
Т	Consumers have not	FALSE	Т		_				
F	control over the		R						
	operating system and		U						
	deployed applications		Е						
Μ	SLAs cover the	Storage	in	Quality of	С	Applicati	in	None	in
С		-	с	service	о	on	с	of	с
			о		rr		0	the	о
			rr		e		rr	abov	rr
			e		ct		е	е	е
			ct				ct		ct
Т	Cloud consumer	TRUE	F						
F	interacts with the		А						
	cloud broker instead		L						
<u>لـــــا</u>		1	1	1	1	1		1	

					1			r	
	of contacting a cloud		S						
	provider directly.		E						
Μ	Amazon Elastic	Software as a	in	Platform as a	in	Hardwar	in	None	С
С	Compute Cloud (EC2)	service (SaaS)	С	service (PaaS)	с	e as a	С	of	0
	is primarily		0		0	service	0	the	rr
	considered which		rr		rr	(HaaS)	rr	abov	е
	type of cloud		е		е		е	e	ct
	computing model?		ct		ct		ct		
Μ	What is a virtual	A virtual	in	A virtual server	in	all the	in	None	С
С	server?	server is a	с	is a server that	с	above	с	of	о
		server that	0	shares only	0		0	the	rr
		not shares	rr	hardware	rr		rr	abov	e
		hardware and	e	resources with	e		e	e	ct
		software	ct	other operating	ct		ct	C	cı
		resources	CL	systems.			CL		
		with other		systems.					
		operating							
H		systems (OS).							
Μ	What is the	It converts	in	)It converts	in	lt	in	lt	С
С	requirement of	Static thin-	С	Dynamic thin-	с	converts	с	conv	0
	Resouce Replication	disk storage	0	disk storage into	0	Dynamic	0	erts	rr
	in elastic disk	into Dyanmic	rr	static thin-disk	rr	thin-disk	rr	Dyna	е
	provisioning Systems?	thin-disk	е	storage.	е	storage	е	mic	ct
		storage.	ct		ct	into	ct	thin-	
						Dynamic		disk	
						thick-		stora	
						disk		ge	
						storage		into	
								static	
								thick-	
								disk	
								stora	
								ge.	
M	The function of	To ease the	in	To react	in	To add	in	None	6
M C	automated	scaling and	in		in	and		of	C O
C		-	С	promptly to	С		С		0
	management is	resiliency	0	failures and not	0	remove	0	the	rr
		according to	rr	change resource	rr	required	rr	abov	e
		failures of	e	demand	e	resource	е	е	ct
		application	ct		ct	s during	ct		
					ļ	runtime			
Μ	What is the full form	Resource	in	Reference State	in		с	None	in
С	of REST?	Shared	С	Transfer	с	Represe	0	of	С
		Transfer	0		0	ntationa	rr	the	0
			rr		rr	l State	е	abov	rr
			е		е	Transfer	ct	e	е
			ct		ct				ct
Μ		Integrated life	с	Anchored	in	Agile life	in	None	in
С	provides facilities as a	cycle	0	lifecycle	с	cycle	с	of	с
	properly combined	management	rr	platform	0	manage	0	the	0
	and properly		e	F	rr	ment	rr	abov	rr
	regulated stack along		ct		' '	ment		e	
1	regulated stack diving		ι					C	

T F	with its personal programming interfaces and middleware. Hyperic a spring source division does offer cloud based monitoring environment as service	TRUE	F A L S E		e ct		e ct		e ct
M C	Which of the following service does waveMaker provides?	Integration and configuration	c o rr e ct	Service management	in c o rr e ct	all the above	in c o rr e ct	None of the abov e	in c o rr e ct
T F	Cloud service providers make their offerings available as an on-demand, self- provisioning purchase.	TRUE	F A L S E						
M C	Non-disruptive is a system:	Responsible for creating and hosting multiple virtual servers. Because of this dependency, any failure conditions that affect a hypervisor can cascade to its virtual servers	in c o rr e ct	In which a pre- defined event triggers the duplication or migration of a cloud service implementation at compiletime, thereby avoiding any disruption in service for cloud consumers.	in c rr e ct	Which establis h a high- availabil ity cluster of hypervis ors across multiple physical servers.	in c o rr e ct	None of the abov e	c o rr e ct
M C	This mechanism is fundamental to the Non-Disruptive Service Relocation pattern in how it provides the storage required to host data pertaining to the virtual servers in a central location.	Hypervisor	in c o rr e ct	Cloud Usage Monitor	in c o rr e ct	all the above	in c o rr e ct	None of the abov e	c o rr e ct
T F	A system can be established whereby cloud service	FALSE	T R						

M	redirection or relocation is not carried out at runtime by temporarily creating a duplicate implementation before the original implementation is deactivated or removed. Zero downtime	energy	UE	project	in	all the	in	None	C
с	deployments are much more easily achieved by using:	management platform	c o rr e ct	management platforms	c o rr e ct	above	c o rr e ct	of the abov e	o rr e ct
M C	Minimum requirement for a deployment architecture with more than one application server node	J2EE Deployment	in c o rr e ct	container management platform	in c o rr e ct	Applicati on server	in c o rr e ct	None of the abov e	c o rr e ct
T	If a old version needs a data upgrade or fix and it is dependent on the new code, then it can be part of the pre-deployment steps.	FALSE	T R U E						
T F	The pre-deployment steps will be executed decrementally before the actual deployment.	FALSE	T R U E						
T F	Cloud Hosting allows you to build your e- commerce presence as quickly as your business grows:	TRUE	F A L S E						
T	Cloud-based architectures are disaster tolerant .A cloud-based platform with built-in redundancy can save the business from data profit:	FALSE	T R U E						
M C	Who experiences degraded	secondary pool	in c o	primary pool	c o rr	all the above	in c o	None of the	in c o

	performance after		rr		е		rr	abov	rr
	resource borrowing		e		ct		e	e	e
	0		ct				ct		ct
Μ	Depending on cloud	runtime	С	compile time	in	all the	in	None	in
С	design (shared usage	exception	о	exception	с	above	с	of	с
	and available levels of		rr		о		о	the	ο
	capacity) concurrent		е		rr		rr	abov	rr
	access can lead		ct		е		е	е	е
	to				ct		ct		ct
	condition								
Μ	Which of the	Customer –	in	Service – based	in	Provider	С	None	in
С	following is not comes	based SLA	С	SLA	С	<ul> <li>based</li> </ul>	0	of	с
	under SLA		0		0	SLA	rr	the	0
	management?		rr		rr		е	abov	rr
			е		е		ct	е	е
			ct		ct				ct
Μ	What does WSLA	Web Source	in	Web Service	in	World	in	None	с
С	stands for?	Level	с	Logic	с	Service	С	of	0
		Agreement	0	Agreement	0	Load	0	the	rr
			rr		rr	Agreem	rr	abov	e
			e		e	ent	e	е	ct
	<b>(T</b> 1 <b>: :</b>		ct		ct		ct	N	• .
M	"This mechanism may	Audit Monitor	С	Cloud Usage	in	all the	in	None	in
С	be required to ensure		0	Monitor	С	above	С	of	С
	that the manner in which this pattern is		rr		0		0	the abov	0
	carried out at runtime		e ct		rr e		rr e		rr
	is in compliance with		ι		ct		ct	е	e ct
	any related legal or				cı		CL		cı
	policy requirements."								
	Which mechanism is								
	this?								
Μ	Which of the	Thin density,	in	Moderate	in	High	in	None	с
С	following options is	less Scalable,	с	density, less	с	density,	с	of	о
	the advantages of	more secure,	о	Scalable, less	о	highly	о	the	rr
	Bare-metal	no	rr	secure, no	rr	Scalable	rr	abov	e
	Hypervisor?	paravirtualizat	е	paravirtualizatio	е	, no host	е	e	ct
		ion	ct	n	ct	OS,	ct		
						paravirt			
						ualisatio			
						n			
Μ	Type-1 hypervisor	Allow multiple	in	Allow multiple	in	Allow	in	None	с
С	provides what	computer	с	computer	с	single	С	of	ο
	services?	operating	0	operating	0	comput	0	the	rr
		systems to	rr	systems to	rr	er	rr	abov	е
		execute on	e	execute on the	e	operatin	e	е	ct
		the same	ct	same computer	ct	g	ct		
		computer		hardware		systems			
		hardware		concurrently but		to .			
		concurrently.		before that one		execute			
						on the			

				host OS must be installed.		same comput er hardwar e			
						concurr ently.			
-	T 4 h !	TDUIE	-			entry.			
Т	Type 1 hypervisor or	TRUE	F						
F	bare-metal hypervisor		А						
	cant run directly on		L						
	hardware as well as		S						
	on a host OS as well.		Е						
Μ	Which of the	Connections	in	DNS	in	all the	С	None	in
С	following network	through	С		С	above	0	of	с
	resources can be load	intelligent	о		0		rr	the	о
	balanced?	switches	rr		rr		е	abov	rr
			е		е		ct	е	е
			ct		ct				ct