Paper / Subject Code: 87002 / Cloud Computing

	(2 ½ Hours) [Total Marks: 75]	74
N.B.	 All questions are compulsory. Figures to the right indicate marks. 	
(4)	3) Illustrations, in-depth answers and diagrams will be appreciated.	
	4) Mixing of sub-questions is not allowed.	
	1) manage state of the state of	
Q. 1	Attempt All	
(a)	Select the correct alternative from the options given: (10N	1)
(i)	Cloud Computing is a paradigm ofto provide the customers on-	
	demand, utility-based computing service.	
	(a) Distributed computing (b) Undistributed Computing	
	(c) Centralized Computing (d) Central Computing	
	D. C. L. A. T. Furning system	
(ii)	serves as a PaaS vendor within Google App Engine system.	
	(a) Amazon (b) Microsoft	
	(c) Hadoop (d) Google	
····	AM: 1	
(iii)	Which one of these is not a cloud computing pricing model? (a) Free (b) Pay Per Use	
	(c) Subscription Ladder	
(iv)	Hypervisor runs at the top of hardware.	
(10)	Type - I (b) Type - II	
	(c) Type - III (d) Type - IV	
	(c) Type III	
(v)	Creating more logical IT resources, within one physical system is called	
(•)	Croating more region 11 100 more projection by	
	(a) Load balancing (b) Hypervisor	
	Virtualization (d) Operating System	
(vi)	What is most commonly used for managing the resources for every virtual	
	system?	
	Load balancer (b) Hypervisor	
	(c) Router (d) Cloud	
(vii)	In virtualization where an array of servers that are managed by a virtual storage system is	
	(a) Application Virtualization (b) Desktop Virtualization	
	(c) Network Virtualization (d) Storage Virtualization	

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(viii)	Which open stack's component is called as a swift?	
	(a) Image Service (b) Dashboard	
	Object Storage (d) Identity	
(ix)	Which component serves as a dashboard for users to manage OpenStack	
. ,	compute, storage and networking services?	
	(a) Designate (b) Horizon	
	(c) Glance (d) Searchlight	
	(c) Statice (a) Scattering in	
(x)	Which OpenStack component provides identity services?	
(^)	(a) Trove (b) Dragon flow	
	(c) Ceilometer (d) Keystone	
	(c) Cenometer Reystone	
(l ₂)	Fill in the blanks by estacting from the seal of sufficient	(E3.5)
(b)	Fill in the blanks by selecting from the pool of options:	(5 M)
	(Network, Abstraction, Stack, Heat, Client, Communication, Cloud Provider,	
/·\	Storage, Glance	
(i)	is the core orchestration component with OpenStack	
(ii)	is an essential concept related to Cloud.	
(iii)	is not a cloud stakeholder.	
(iv)	virtualization has the ability to run multiple virtual networks with	
	each has a separate control and data plan.	
(v)	component provides image services for creating VMs in Open	
	Stack.	
	A	
Q. 2	Attempt the following (Any THREE)	(15M)
(a)	Explain cloud computing reference model with a neat diagram.	
(b)	How is Grid Computing different from Cloud Computing? Elaborate.	
(c)	What is utility oriented computing? Explain.	
(d)	Explain the cloud deployment models, in detail.	
(e)	Briefly explain the Client/Server architectural style.	
(f)	List and explain the models for message-based communication.	
1 /	1	
Q. 3	Attempt the following (Any THREE)	(15M)
(a)	Explain Storage, Network and Desktop virtualization techniques.	(10171)
(b)	What is a hypervisor? Explain the different types of hypervisors with a neat	
(4)		
(c)	diagram Evaluin the present cons of virtualization	
(c)	Explain the pros and cons of virtualization.	
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(d)	Compare Full and para virtualization.	
(e)	Define virtualization and describe its benefits.	
(f)	List and define the security rings of virtualization.	
Q. 4	Attempt the following (Any THREE)	(15)
(a)	Explain the architecture of Nova.	
(b)	Explain the types of storage provided by OpenStack.	
(c)	Explain Orchestration Service in OpenStack	
(d)	Explain Open Stack Operation in detail.	
(e)	What is Devstack? Write the steps to install Devstack.	
(f)	Explain Tenant Model Operation in Open Stack	
()		
Q. 5	Attempt the following (Any FIVE)	(15)
(a)	List the types of Cloud. Write about anyone.	
(b)	What is Desktop Virtualization, write in brief?	
(c)	Write three differences between Cloud Computing and Virtualization.	
(d)	What is oVirt?	
(e)	Write any three advantages of Distributed System.	
(f)	Write a short note on QoS.	
(g)	What is Open Stack?	
(h)	What is AWS?	
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