	(2 ½ Hours)	[Total Marks: 75]
N.B	. 1) All questions are compulsory.	
14.D	2) Figures to the right indicate marks.	Conal Land
	3) Illustrations, in-depth answers and diagrams will be appreciated.	
	4) Mixing of sub-questions is not allowed.	
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Q. 1	Attempt All (Each of 5Marks)	(15M)
(a)	Multiple Choice Questions	
	i. Google App engine Provides a. IaaS b. PaaS c. SaaS d. None of these	
	ii. Cloud computing is a system and it is necessarily unidirectional in nature.	
	a. stateless b. stateful c. restricted d. None of these	
	iii. Three major components of virtualized environment are	
	a. guest, host and port	
	b. guest, host and virtualization layer	
	c. guest, port and virtualization layer	
	d. None of these	
	iv. Parallel computing implies	
	a. loosly coupled system	
	b. tightly coupled system	
	c. medium coupled system	
	d. none of these.	
	v. Which is not a common virta dizat.	
	a. Execution Virt all. tion	
	b. Network V. Alizati	
	c. Storage artually tion d. Interface a stuality from	
(b)	d. Interface vitant atom	
(b)	Fill in the blanks (Live migration, live consolidation, native, private, hybrid, heat)	
	i. The cloud infrastructure is operated for the exclusive use o	for organization
	ii. Openstack orchestration is performed using component.	i an organization.
	iii. Cloud Bursting happens in cloud.	
, ,	iv. Hypervisor that does not need a host operating system is ca	illed as
100	hypervisor.	
1000	V. Moving a virtual machine while running from one server to o	ther is called as
c)	Short Answers	
	i. What is Keystone?	
	ii What is hardware-assisted virtualization?	
	iii. What is Type II hypervisor? iv. What is SOA?	
	v. What is KVM?	
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Q. 2	Attempt the following (Any THREE)(Each of 5Marks)	(15M)
(a)	Explain the characteristics of Cloud computing as per NIST.	
(b)	Explain the hardware architecture of Parallel Computing.	
(c)	Write a short note on Amazon EC2.	
(d)	What is utility computing?	
(e)	Explain the concept of Cloud Computing stack.	
(f)	Explain the concept of public, private and hybrid Cloud	
Q. 3	Attempt the following (Any THREE) (Each of 5Marks)	(15M)
(a)	What is Virtualization? Give the major causes for diffusion of virtualization.	
(b)	Discuss classification or taxonomy of virtualization at different levels.	
(c)	Explain the pros and cons of virtualization.	the state of the s
(d)	What are the benefits of virtualization in the context of cloud computing?	
(e)	Explain various features of KVM.	
(f)	List some of the challenges in cloud computing.	
Q. 4	Attempt the following (Any THREE) (Each of 5Mark	(15)
(a)	What is Devstack? Explain the steps to install Devstock	
(b)	What are the key components of OpenStack?	
(c)	Explain the concept of Quota in Openstack	
(d)	Explain various deployment models of tensta k.	
(e)	Explain the architecture of Neutron	
(f)	Explain the architecture of No.	
Q. 5	Attempt the following Any HR (Each of 5Marks)	(15)
(a)	Write a short note: a Distributes computing	
(b)	What are the characteristics of virtualized environments?	
(c)	Differentiate between Sider and Swift in Openstack.	
(d)	Explain the benefits for a start up to implement cloud infrastructure.	
(e)	Explain RPC in detail.	
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