Code No: **R42124**

Set No. 1

IV B.Tech II Semester Regular Examinations, April/May - 2014 CLOUD COMPUTING

Time: 3 hours			lax. Marks: 75				
		Answer any Five Questions					
	All Questions carry equal marks *****						
1	a) b)	What is Operating System level virtualization? What are the pros & cons of it? Explain the differences between hypervisor & para-virtualization.	[8] [7]				
2	a) b)		[8]				
			[7]				
3		What is a data center? What significant benefits can be achieved by virtualizing data? What are the disadvantages?	[15]				
4	a) b)	How is network intrusion detection implemented in cloud? "A firewall protects the perimeter". Explain How?	[8] [7]				
5		In security as service, What are the requirements of the following? a) Web Security					
		b) Email Securityc) Network Security	[15]				
6		What is Google App Engine? What are its features? What are the services provided by App Engine?	[15]				
7		Under disaster management, a) What things have to be monitored? b) How is detabase recovery done?					
		b) How is database recovery done?c) How is load balancer recovery done?	[15]				
8	a) b)	Give the architecture and explain its components. Comment on Xen paravirtualization for virtual memory management.	[8] [7]				

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Set No. 2

IV B.Tech II Semester Regular Examinations, April/May - 2014 CLOUD COMPUTING

Time: 3 hours			Max. Marks: 75				
	Answer any Five Questions All Questions carry equal marks *****						
1	a) b)	At what operational levels can virtualization be implemented? Explain.	[8] [7]				
2	a) b)	What are the different cloud infrastructure models? Give some examples. Compare cloud based IT Vs internal IT & Managed services with respect to capital investment, cost, time flexibility & reliability.	[8] [7]				
3	a) b)	Give a brief analysis of the energy use by data centers. What are the reasons for moving onto cloud?	[8] [7]				
4	a) b)	Discuss the main security threats for the SaaS cloud delivery on a public cloud. What is trust in the context of cloud computing?	[8] [7]				
5	a) b)	Comment on the security and reliability in storage as service. Write short note on Amazon Simple Storage Service.	[8] [7]				
6		Give the structure of the IaaS delivery model. Explain in detail the characteristics of IaaS.	[15]				
7		Comment on a) Geographic redundancy b) Organizational redundancy	[15]				
8	a) b)	Discuss about the programming support provided by Amazon. Give the architecture of Nimbus, and explain its features,	[8] [7]				

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Set No. 3

IV B.Tech II Semester Regular Examinations, April/May - 2014 CLOUD COMPUTING

Ti	Time: 3 hours Max. Marks: 7					
Answer any Five Questions All Questions carry equal marks *****						
1		Describe the concept of: a) Host based virtualization b) Full Virtualization c) Para Virtualization	[15]			
2		Define and distinguish among the following terms on scalability: a) Resource scalabilityb) Salability over machine size				
		b) Salability over machine sizec) Salability over problem size	[15]			
3	a) b)	What is meant by software licensing? What are the issues related to software licensing? What is a service level agreement? What objectives are defined under SLA?	[8] [7]			
4	a) b)	What is meant by system hardening? What criteria should be met by the hardened system? What is meant by Host Intrusion Detection (HID)? In what way the cloud network use the centralized HID?	[8] [7]			
5		What is Database as Service? Describe the DBaaS architectures- Business, Application & Information Architectures in detail.	[15]			
6		Briefly describe about Platform as service. Compare the cloud computing delivery models PaaS & IaaS from the point of view of application developers and users.	[15]			
7		Describe the backup plan for fixed data, transient data, configuration data & persistent data.	[15]			
8	a) b)	How is Eucalyptus used for virtual networking of a private cloud? Give a comparison of Eucalyptus, Open Nebula & Nimbus.	[8] [7]			

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Set No. 4

IV B.Tech II Semester Regular Examinations, April/May - 2014 CLOUD COMPUTING

Time: 3 hours Max.			Iarks: 75	
		Answer any Five Questions All Questions carry equal marks		
1	a) b)	***** Comment on the evolution of Service Oriented Architecture. What are the differences between traditional & On demand scaling approaches?	[8]	
2	a) b)	Describe the characteristics of cloud computing systems.	[7] [8] [7]	
3	a) b)	List out the Virtual Infrastructure managers and Operating Systems for virtualizing data centers. What constitutes availability? How is availability estimated?	[8] [7]	
4	a) b)	What security measures should be taken by the user while storing the data on a cloud?	[8]	
5		in a traditional data center? Comment on the growing complexity of Information. What are the benefits of Information as service? What is the role of Cloud in Information as Service?	[7] [15]	
6		Explain about Amazon Elastic Compute Cloud. What are its features?	[15]	
7		Describe how the two key metrics Recovery Point Objective(RPO) & Recovery Time Objective(RTO) can be determined for disaster recovery in cloud?	[15]	
8		What is a private cloud? Mention some of the open source cloud computing platforms. Explain any one in detail.	[15]	