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Set No.	
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IV B.Tech II Semester Regular Examinations, April/May - 2017 CLOUD COMPUTING

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Code No: **RT42043E**

(Common to Electronics & Communication Engineering and Computer Science &

Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

PART-A (22 Marks)

a)	What is message passing interface?	[3]
b)	Discuss binary translation in Virtualization?	[4]
c)	Define cloud computing? List out characteristics of cloud computing?	[3]
d)	List out system issues for running typical parallel program in cloud data	
	centers?	[4]
e)	Explain the Policies and Mechanisms for resource management in cloud data	
	centers?	[4]
f)	Define ACID properties of transaction management?	[4]
	PART-B $(3x16 = 48 Marks)$	
a)	Discuss HPC and HTC.	[6]
b)	Discuss performance Metrics and Scalability Analysis for virtual Machines.	[10]
a)	Explain Implementation levels of virtualizations.	[8]
b)	Give VMM design requirements and explain.	[8]
		[10]
b)	Define cloud computing? Explain different types of clouds available.	[6]
-)	Differentiate has a signature and the Deres II NO	101
		[8]
b)	Explain SQL Azure & Azure tables?	[8]
a)	Discuss about fair queue scheduling algorithm?	[8]
b)	What is the role of power managers in cloud resource scheduling and	
	management? Explain briefly.	[8]
a)	List and explain various storage models of file systems and data base?	[8]
b)	What is Amazon S3? Explain in detail.	[8]
	 b) c) d) e) f) a) b) c) <	 b) Discuss binary translation in Virtualization? c) Define cloud computing? List out characteristics of cloud computing? d) List out system issues for running typical parallel program in cloud data centers? e) Explain the Policies and Mechanisms for resource management in cloud data centers? f) Define ACID properties of transaction management? <u>PART-B</u> (3x16 = 48 Marks) a) Discuss HPC and HTC. b) Discuss performance Metrics and Scalability Analysis for virtual Machines. a) Explain Implementation levels of virtualizations. b) Give VMM design requirements and explain. a) State and explain service models of cloud computing with architectures? b) Define cloud computing? Explain different types of clouds available. a) Differentiate between piglatin, sawzall & DrayadLINQ. b) Explain SQL Azure & Azure tables? a) Discuss about fair queue scheduling algorithm? b) What is the role of power managers in cloud resource scheduling and management? Explain briefly. a) List and explain various storage models of file systems and data base?

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	Co	ode No: RT42043E	R13	Set No. 2	
			r Regular Examinations, April/May OUD COMPUTING	y - 2017	
	(Co	mmon to Electronics & Con	nmunication Engineering and Con Engineering)	nputer Science &	
Ti	me:	3 hours		Max. Marks: 70	
		Answer A	per consists of Part-A and Part-B LL sub questions from Part-A THREE questions from Part-B *****		
			PART-A (22 Marks)		
1.	a)	What is Hypervisor? List ou		[4]]
	b)	What are the steps involved	in live VM migration?	[4]]
	c)	Illustrate cloud design object	ctives?	[4]]
	d)	What is HDFS? Name two	layers in HDFS?	[3]]
	e)	What is the role of mapper	and reducer in Hadoop platform?	[3]]
	f)	Discuss the use of NoSQL	Database?	[4]]
		<u>P</u>	ART-B (3x16 = 48 Marks)		
2.	a)	Explain GPU Computing, E	Exascale & beyond.	[8]]
	b)	Discuss briefly Massive Par	callel Processors.	[8]]
3.	a)	What is VMM? Explain XE	EN Architecture?	[8]	1
0.	b)	-	n? Draw a neat sketch of Para		L
	-)	Architecture and explain.	rstr	[8]]
4.	a)	List out architecture design	challenges of compute & storage C	Clouds? Discuss	
		them in brief.		[8	1
	b)		ele cloud platform and explain?	[8]	
5.	a)	Explain Google file systems	5.	[8]]
	b)	Explain Amazon Elastic Blo	ock Structure (EBS) & Simple DB?	[8]]
6.	a)		es with respect to cloud scheduling?	[8]	
	b)	What is resource bundling?	Explain combinational auctions?	[8]]
7.	a)	Explain mega store architec	ture with example?	[10]]
	b)	What is Bigtable? How it is	related to GFS?	[6]]

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	Co	ode No: RT42043E R13 Set No	.3
		IV B.Tech II Semester Regular Examinations, April/May - 2017	
		CLOUD COMPUTING	
(Сот	nmon to Electronics & Communication Engineering and Computer Science &	&
		Engineering)	
Tim	ne: í	3 hours Max. Marks	: 70
		Question paper consists of Part-A and Part-B	
		Answer ALL sub questions from Part-A	
		Answer any THREE questions from Part-B *****	
		PART-A (22 Marks)	
1.	a)	Explain SOA with its applications?	[4]
	b)	Compare physical versus virtual clusters?	[4]
	c)	What is IaaS? Mention any two IaaS service providers?	[4]
	d)	Discuss Bigtable?	[3]
	e)	Define control theory? Discuss the use of control theory in cloud resource	
		management.	[3]
	f)	List out the functionalities of AmazonS3?	[4]
2	``	$\frac{PART-B}{B} (3x16 = 48 Marks)$	501
	a)	Illustrate the degrees of parallelisms.	[8]
	b)	Explain the design goals of HPC & HTC	[8]
3.	a)	What is Memory virtualization? Explain two level memory mapping procedure?	[8]
	a) b)	Explain implementation levels of virtualization briefly?	[8]
	0)	Explain implementation levels of virtualization offerty?	[0]
4	a)	Draw and explain Amazon cloud computing infrastructure?	[8]
	b)	List five public cloud offerings of PaaS?	[8]
	0)	List five public cloud offerings of Funds.	[0]
5.	a)	Explain Google Map Reduce frame work architecture with example?	[10]
	b)	What is DryadLINQ? Explain briefly?	[6]
	0)		[•]
6.	a)	Discuss briefly borrowed virtual time (BVT)?	[8]
	b)	What is utility computing? Explain utility model for cloud web services?	[8]
	,		
7.	a)	Explain in detail general parallel file system?	[10]
	b)	How megastore is associated with Bigtable? Explain.	[6]

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		IV B.Tech II Semester Regular Examinations, April/May - 2017 CLOUD COMPUTING	
((Cor	nmon to Electronics & Communication Engineering and Computer Science &	&
		Engineering)	
Tin	ne: 3	3 hours Max. Marks	: 70
		Question paper consists of Part-A and Part-B	
		Answer ALL sub questions from Part-A	
		Answer any THREE questions from Part-B *****	
		PART-A (22 Marks)	
1.	a)	Define parallel computing.	[4]
	b)	What is KVM? Explain?	[3]
	c)	How does cloud computing provides on demand functionality?	[4]
	d)	List out the features of Amazon S3?	[3]
	e)	Draw two level architecture of resource allocation in cloud?	[4]
	f)	What is Chubby? How it is useful to cloud?	[4]
		$\underline{\mathbf{PART}}_{-\mathbf{B}} (3x16 = 48 Marks)$	
2.	a)	Explain different computing paradigms.	[8]
	b)	Discuss in detail different system models for distributed and cloud computing?	[8]
3.	a)	What is the need of live VM Migration steps and performance effects?	[8]
	b)	(i) Does VMM acts as an interface in virtualization? Justify	
		(ii) What is the rate of domain 'O' is XEN architecture?	[8]
4.	a)	Draw and explain Microsoft Windows Azure?	[8]
	b)	List five public cloud offerings of IaaS?	[8]
5.	a)	What is HDFS? Explain job management in HDFS with Architecture?	[10]
	b)	How the piglatin is helpful to Hadoop Architecture? Explain.	[6]
6.	a)	With a neat sketch explain Stability of a two-level resource allocation	FO
	1 \	architecture.	[8]
	b)	With an example explain start time fair queuing algorithm?	[8]
7.	a)	Explain the architecture of GFS clustering?	[10]
	b)	Write a short note on AmazonS3?	[6]

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