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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]
	<b>PART-B</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]
	<ul> <li>b)</li> <li>c)</li> <li>d)</li> <li>e)</li> <li>f)</li> <li>a)</li> <li>b)</li> <li>c)</li> &lt;</ul>	<ul> <li>b) Discuss binary translation in Virtualization?</li> <li>c) Define cloud computing? List out characteristics of cloud computing?</li> <li>d) List out system issues for running typical parallel program in cloud data centers?</li> <li>e) Explain the Policies and Mechanisms for resource management in cloud data centers?</li> <li>f) Define ACID properties of transaction management?</li> <li><u>PART-B</u> (3x16 = 48 Marks)</li> <li>a) Discuss HPC and HTC.</li> <li>b) Discuss performance Metrics and Scalability Analysis for virtual Machines.</li> <li>a) Explain Implementation levels of virtualizations.</li> <li>b) Give VMM design requirements and explain.</li> <li>a) State and explain service models of cloud computing with architectures?</li> <li>b) Define cloud computing? Explain different types of clouds available.</li> <li>a) Differentiate between piglatin, sawzall &amp; DrayadLINQ.</li> <li>b) Explain SQL Azure &amp; Azure tables?</li> <li>a) Discuss about fair queue scheduling algorithm?</li> <li>b) What is the role of power managers in cloud resource scheduling and management? Explain briefly.</li> <li>a) List and explain various storage models of file systems and data base?</li> </ul>

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	Co	ode No: <b>RT42043E</b>	<b>R13</b>	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><b>P</b></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: <b>RT42043E R13</b> 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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Set No. 4

		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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