Code No: **RT42043E** **R13** **Set No. 1**

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018

CLOUD COMPUTING

(Common to Computer Science and Engineering & Electronics and Communication 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)*

1. a) Describe about Computing Cluster. [3]
   b) Differentiate between traditional Computer and Virtual Machine. [4]
   c) What is the architecture of Cloud Computing? [4]
   d) What is MapReduce? [4]
   e) Describe the structure of Cloud Controller. [4]
   f) What is the cloud storage system? [3]

PART–B *(3x16 = 48 Marks)*

2. a) Write and explain about Amdahl's Law. [8]
   b) Discuss about classification of Distributed and Parallel Computing Systems. [8]

3. a) Explain the process Virtualization at Instruction Set Architecture (ISA) level. [8]
   b) Explain in detail about Hypervisor. [8]

4. a) Distinguish between Public Cloud and Private Cloud. [8]
   b) Explain briefly about various cloud services and their major providers. [8]

5. a) List the attractive features of Hadoop and describe about Hadoop Cluster. [8]
   b) Explain the HDFS and Map Reduce architecture in Hadoop. [8]

6. a) List the various policies of Cloud resource Management (CRM.) [8]
   b) Explain about coordinating and performance management in cloud computing. [8]

7. Explain about Amazon simple storage service (S3). [16]

Code No: **RT42043E** **R13** **Set No. 2**

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018

CLOUD COMPUTING

(Common to Computer Science and Engineering & Electronics and Communication 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)*

1.	a)	Describe about Cloud.	[3]
	b)	Write about Virtual Machine.	[4]
	c)	What are the advantages of using Cloud Computing?	[4]
	d)	List any four benefits of MapReduce.	[4]
	e)	Describe about Borrowed virtual time.	[4]
	f)	What information is stored in the cloud?	[3]

PART–B *(3x16 = 48 Marks)*

2.	a)	Explain about Service Oriented Layered Architecture.	[8]
	b)	Discuss in detail about Computational Grid.	[8]
3.	a)	Explain the about Virtualization for Linux and Windows and NT Platform.	[8]
	b)	Explain the process of Live Migration of VM from one host to another.	[8]
4.		Explain in detail about various Cloud service Models.	[16]
5.	a)	Explain about Google file system (GFS).	[8]
	b)	Discuss about Hadoop cluster.	[8]
6.	a)	Discuss various Mechanisms for the implementation of resource management policies in Cloud.	[8]
	b)	List and explain the Control theory applications to CRM.	[8]
7.	a)	Explain about parallel file System.	[8]
	b)	List and explain the Limitations of Cloud storage.	[8]

Code No: **RT42043E** **R13** **Set No. 3**

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018

CLOUD COMPUTING

(Common to Computer Science and Engineering & Electronics and Communication 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)*

1.	a)	Describe about GRID	[3]
	b)	Write about Para-Virtualization	[4]
	c)	What are some examples of Cloud Computing?	[3]
	d)	List and four uses of MapReduce in Research	[4]
	e)	Describe about resource bundling in cloud computing	[4]
	f)	How do you access my cloud?	[4]

PART–B *(3x16 = 48 Marks)*

2.	a)	List and explain various advantages of Cloud over traditional Distributed system.	[8]
	b)	Write and explain about P2P network and its major categories.	[8]
3.	a)	Explain the process of Virtualization in Operating Systems (OS) Level.	[8]
	b)	Write and explain about Virtual Clusters.	[8]
4.	a)	Write about Security and Trust barriers in Cloud Computing.	[8]
	b)	Explain about Platform as a Service (PaaS).	[8]
5.		Explain in detail about Data Flow implementation of Map Reduce.	[16]
6.	a)	List various control theory application to CRM.	[8]
	b)	Write about a utility-based model for Cloud-based web services.	[8]
7.	a)	Explain about distributed file systems.	[8]
	b)	What are all the business benefits of cloud storage?	[8]

Code No: **RT42043E** **R13** **Set No. 4**

IV B.Tech II Semester Regular/Supplementary Examinations, April – 2018

CLOUD COMPUTING

(Common to Computer Science and Engineering & Electronics and Communication 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)*

1.	a)	Describe about P2P Network.	[4]
	b)	List various challenges of Memory Virtualization.	[4]
	c)	What are the different types of Cloud Computing?	[3]
	d)	What do you mean by Hadoop?	[4]
	e)	Write about Ascending Clock Auction.	[3]
	f)	Describe about distributed file systems.	[4]

PART–B *(3x16 = 48 Marks)*

2		Explain about	
		a) Computational Data Grid	[8]
		b) Various Challenges in Cloud Computing.	[8]
3.	a)	Explain the process of Virtualization at Hardware Abstraction.	[8]
	b)	Distinguish between Full Virtualization and Para-Virtualization.	[8]
4.	a)	Write and explain the Cloud echo system for building Private Cloud.	[8]
	b)	Explain about Infrastructure as a Service (IaaS).	[8]
5.	a)	Explain about MapReduce Architecture.	[8]
	b)	Explain in detail about Google File System (GFS) Architecture.	[8]
6.	a)	Discuss about a Utility-based model for cloud-based web services.	[8]
	b)	Explain about scheduling algorithms for computing clouds.	[8]
7.	a)	How does cloud storage work? Explain.	[8]
	b)	What are all the personal benefits of cloud storage?	[8]