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
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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 [8]
      policies in Cloud.
   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   [8]
       system.
    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]