

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]



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Set No. 2

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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]



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Set No. 3

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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 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]



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Set No. 4

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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 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]

