

Code No: RT42043E

R13

Set No. 1

IV B.Tech II Semester Supplementary Examinations, July/August - 2017

CLOUD COMPUTING

(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)

1. a) Explain about the Energy efficiency in Distributed computing. [4]
- b) How virtualization can be implemented in the multi-core processors. [3]
- c) Write a short note on Google App Engine [4]
- d) What are the traditional features common to grids and clouds. [4]
- e) What is Start- Time Fair query? Explain. [3]
- f) Explain briefly about the general Parallel File System. [4]

PART-B (3x16 = 48 Marks)

2. a) What are the advantages of Cloud Computing over the Internet? Explain? [8]
- b) Give the architecture of P2P systems. What are the major categories of P2P Network families? [8]
3. a) Explain the differences between full-virtualization and para-virtualization and give one example VMM (virtual machine monitor), that was built in each of the two categories. [8]
- b) Write and explain about intel hardware support for virtualization of processor, memory and I/O Devices? [8]
4. a) Explain about Resource provisioning and Platform deployment? [8]
- b) What is SOA? Discuss with architecture how two software communicate using SOA. [8]
5. a) Write and explain about programming on Amazon AWS and Microsoft Azure? [8]
- b) What are emerging cloud software environments? Explain with examples? [8]
6. a) Write about the scheduling algorithms for computing clouds. [8]
- b) Explain the cloud scheduling subject to deadlines? [8]
7. a) Discuss the megastore model with an example? [8]
- b) "blinding performance depends on removing overhead." Comment on this argument regarding the *NoSQL* concept [8]



Previous Question Papers

R18

Code No: 157AW
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, January/February - 2023
CLOUD COMPUTING
(Common to CSE, IT)

Time: 3 Hours **Max. Marks: 75**

Note: i) Question paper consists of Part A, Part B.
 ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
 iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A **(25 Marks)**

- 1.a) Why is it necessary to understand the various computing environments? [2]
- b) How parallel computing differs from Distributed computing? [3]
- c) What is cloud computing? [2]
- d) State the need for cloud computing. [3]
- e) What is public cloud access networking? [2]
- f) Describe Elasticity and Multitenancy properties in brief. [3]
- g) What do you mean by Desktop as a Service cloud mode? [2]
- h) Write down the pros and cons of Platform as a service. [3]
- i) What is the main purpose of Google Cloud Connect? [2]
- j) Give an overview of Google App Engine cloud service. [3]

PART – B **(50 Marks)**

2. What is High-Performance computing? Describe the need of HPC taking any two real case scenarios. [10]

OR

- 3.a) How a cluster computing differs from cloud computing? State the need for cluster computing and grid computing. [5+5]
- b) Give a detail note on Quantum computing and Optical computing. [5+5]

4. What are the principles of cloud computing? Explain in detail. [10]

OR

- 5.a) Examine and present the motivation of Cloud computing. [5+5]
- b) Present the basic requirements for cloud services. [5+5]

6. Provide an overview about application migration to the cloud. [10]

OR

- 7.a) Write a detail description about managing the cloud. [5+5]
- b) Give an insight on the anatomy of the cloud. [5+5]

8. How the Platform as a Service changes the application developer? Provide a detailed overview of the Platform as a service of the cloud. [10]

OR

- 9.a) Write down the characteristics of Software as a Service cloud model. [5+5]
- b) Discuss about the deployment and delivery of cloud service models. [5+5]

10. Describe various services provided by IBM SmartCloud in detail. [10]

OR

- 11.a) Give an overview of Windows Azure cloud services. [5+5]
- b) "Salesforce.com is a cloud computing and social enterprise SaaS provider". Justify your answer. [5+5]

Code No: 157AW

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, July/August - 2022

CLOUD COMPUTING

(Common to CSE, IT)

Time: 3 Hours

Max.Marks:75

Answer any five questions
All questions carry equal marks

- 1.a) Differentiate between cluster computing and cloud computing.
- b) Explain in detail about optical and Nano computing. [5+10]
2. What is high performance computing? How to achieve it? Explain different technologies used to achieve high performance computing. [15]
- 3.a) Define cloud computing? Explain, how Cloud computing is used as platform.
- b) What are the five essential characteristics of cloud computing? Discuss. [5+10]
4. Discuss in detail about different deployment models of cloud. [15]
- 5.a) Explain about network connectivity in cloud computing.
- b) Discuss about applications in cloud. [7+8]
- 6.a) Discuss the phases involved in migrating a cloud.
- b) Explain how cloud applications are managed. [7+8]
- 7.a) Discuss in detail about characteristics, suitability, pros and cons of IaaS.
- b) Discuss about examples of IaaS providers and range of services they offer. [10+5]
- 8.a) Explain briefly about Captiva Cloud Toolkit.
- b) What is virtualization? Explain about virtualization services provided by SAP. [5+10]

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Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CSE) (2011 Onwards Elective-III) (Sem.-7,8)

CLOUD COMPUTING

Subject Code : BTCS-912

Paper ID : [A2994]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a. What is Windows Azure cloud platform?
- b. What do you understand by virtualization?
- c. What is a Public cloud?
- d. What do you understand by Hybrid clouds?
- e. How is a cloud different from hosted IT services?
- f. Define a cloud.
- g. Why is cloud based model more economic?
- h. Give one example of PaaS model.
- i. How is a SaaS different from PaaS?
- j. List the services offered by Amazon Cloud web service.

SECTION-B

2. What are the different components of Data Security in Cloud? What do you understand by Big Data in cloud?
3. Suppose a company A decides to set up a cloud to deliver Software as a Service to its clients through a remote location. Answer the following:
 - a) What are the security risks for which a customer needs to be careful about?
 - b) What kind of infrastructural set up will be required to set up a cloud?
 - c) What sort of billing model will such customers have?
4. Compare and contrast the cloud services being offered by Google and IBM.
5. What are the downsides to moving to cloud hosting? What is the SPI model of cloud?
6. What are the various identity and access management (IAM) practices followed for authentication, authorization, and auditing of the users accessing cloud services?

SECTION-C

7. What do you understand by hypervisors? How does cloud model provide virtualization?
8. Explain in detail the cloud security reference model. Explain the security risks associated with a cloud.
9. Suggest 05 steps to reduce security breaches in cloud computing. Also discuss how cloud security is different from other IT infrastructure hosted within an organization.

- 8.a) Write a short note on basic principles of cloud computing.
- b) Explain briefly the Layers Enhancement for Federation (RESERVOIR Architecture). [5+5]

OR

- 9.a) Write a short note on Traditional Approach to SLA Management.
- b) Write a short note on the need for Cloud Mashups and various concepts of Cloud Mashups. [5+5]

10.a) Explain briefly the framework to comprehend the competitive environment in Cloud Computing.

- b) Write a short note on Change Management Maturity Model (CMMM). [5+5]

OR

11.a) Explain in detail the idea of "Cloud Computing and Identity" in Cloud Security.

- b) Explain how Cloud Computing is different from Outsourcing and Provision of Application Services. [5+5]