

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech IV Year I Semester Examinations, November/December –2017

CLOUD COMPUTING

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART- A

(25 Marks)

- a) Describe computational grids. [2]
- b) Explain any three services offered by cloud. [3]
- c) Explain Storage virtualization. [2]
- d) Explain high availability and data recovery. [3]
- e) Explain Opennebula. [2]
- f) What is lease scheduling? [3]
- g) What are the business benefits of cloud computing? [2]
- h) Explain Virtual administration in cloud. [3]
- i) Explain data interoperability in cloud. [2]
- j) Explain software vulnerability and breaches in cloud. [3]

PART-B

(50 Marks)

- 2.a) Elucidate Network threats and data integrity.
 - b) Briefly explain the design principles of computer clusters. [5+5]
- OR**
- 3.a) Explain system models for distributed and cloud computing.
 - b) What are the design objectives of computer clusters? [5+5]
- 4.a) Describe various deployment models in cloud.
 - b) Elucidate hardware virtualization. [5+5]
- OR**
- 5.a) Explain the functions and types of Hypervisors.
 - b) Describe the features, challenges and risks in cloud computing. [5+5]
- 6.a) Elucidate Amazon Elastic cloud computing.
 - b) Explain the architecture of Eucalyptus. [5+5]
- OR**
- 7. Explain the implementation of hybrid cloud. [10]
 - 8.a) Explain a model for federal cloud computing.
 - b) Explain the best practices to build an application on cloud. [5+5]
- OR**
- 9.a) What are the External threats and Internal threats of virtualization infrastructure.

- b) ElucidateSLAmanagementincloud. [5+5]
10. a) Elicittheprosandconsofcontentlevel security.
b) DistinguishCloudComputingfromoutsourcingandprovisionofapplicationservices. [5+5]
- OR**
11. ElucidateCloudservicelifecycle. [10]



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IVB.TechIISemesterSupplementaryExaminations,July/August-2017

CLOUDCOMPUTING

(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]

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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]



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CodeNo: 157AW

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech IV Year I Semester Examinations, January/February-2023

CLOUD COMPUTING

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. 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 Multi-tenancy 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 does cluster computing differ from cloud computing? State the need for cluster computing and grid computing. [5+5]
- b) Give a detailed 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 detailed description about managing the cloud. [5+5]
- b) Give an insight on the anatomy of the cloud. [5+5]

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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.
b) Discuss about the deployment and delivery of cloud service models. [5+5]

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

OR

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

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CodeNo:157AW**JAWAHARLALNEHRUTECHNOLOGICALUNIVERSITY HYDERABAD****B.TechIVYearISemesterExaminations,July/August-2022****CLOUD COMPUTING****(Common to CSE, IT)****Time:3HoursMax.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 Nanocomputing. [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 a 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. Explain
b) 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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CodeNo:157AW**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech IV Year I Semester Examinations, February/March-2022****CLOUD COMPUTING****(Common to CSE, IT)****Time: 3 Hours**

Time: 3 Hours Max. Marks: 75

Answer any Five
Questions All Questions Carry Equal Marks

1. In detail, explain the following computing paradigms:
 - a) Mobile Computing
 - b) Cluster Computing.[7+8]
- 2.a) Explain the need and features of cloud computing.
b) Enumerate the differences between nano computing and optical computing. [8+7]
- 3.a) Explain cloud computing with perspective as a platform. Discuss
b) about the four cloud deployment models. [7+8]
- 4.a) Explain the principles of cloud computing.
b) Explain the service-platform-infrastructure (SPI) model of the cloud. [7+8]
5. With a neat diagram, explain the components in the anatomy of the cloud. [15]
- 6.a) Explain the different phases of cloud migration.
b) Discuss about network connectivity in cloud computing. [8+7]
- 7.a) What is Software-as-a-Service (SaaS)? Explain the characteristics of SaaS. Explain
b) the pros and cons of IaaS. [8+7]
8. Write short notes on:
 - a) SAP HANA Cloud Platform
 - b) VMware.[7+8]

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