

**R18**

Code No: 157AW

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech III Year I Semester Examinations, January/February-2023 CLOUD****COMPUTING****Time: 3Hours****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 qu

- 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.

- a) 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.

- a) 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.

- a) 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.

- a) 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.

- a) "Sales force.com is a cloud computing and social enterprise SaaS provider". Justify your answer. [5+5]



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**JAWAHARLALNEHRUTECHNOLOGICALUNIVERSITY HYDERABAD**

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

**CLOUD COMPUTING**

**Time: 3Hours**

**Max.Marks:75**

**Answer any five questions**

**All questions carry equal marks**

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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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**JAWAHARLALNEHRUTECHNOLOGICALUNIVERSITY HYDERABAD**

**B.Tech III Year I Semester Examinations, February/March-2022**

**CLOUD COMPUTING**

**(Common to CSE (CS), IT)**

**Time: 3Hours**

Time: 3Hours

Max. Marks: 75

Answer any Five Questions

All Questions Carry Equal Marks

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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.  
b) Discuss 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.  
b) Explain the pros and cons of Iaas. [8+7]
8. Write Short notes on:
  - a) SAPHANA Cloud Platform
  - b) VMware. [7+8]

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**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**

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- 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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