

R15

Code No: 126VV

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech III Year II Semester Examinations, April - 2018****CLOUD COMPUTING
(Information Technology)****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)**

1. a) Define about High- Throughput computing. [2]
- b) Explain about Cyber-Physical Systems. [3]
- c) List out the challenges of Saas Paradigm. [2]
- d) What are the Adoption and Consumption Strategies? [3]
- e) Mention the Virtual Servers managed by IAAS users. [2]
- f) Differentiate between public and Private Cloud. [3]
- g) List out Primary Requirements from a Cloud Computing Infrastructure. [2]
- h) Point out key components of Service level Agreement. [3]
- i) What are the Five Driving Factors for Change Encapsulated by the Frame Work? [2]
- j) What is an Information Card? [3]

PART - B**(50 Marks)**

2. a) How Transparency in Programming Environments separates in Cloud Computing?
 - b) Discuss the Feature Comparison of Three Distributed Operating Systems. [5+5]
- OR**
3. a) Define the Evolution of SOA. Explain how SOA is applied to Cloud Computing.
 - b) Discuss the Design Objectives of Computer Clusters. [5+5]
4. a) What are the Broad Approaches to Migrate into the Cloud? Explain.
 - b) Explain the Evolution of SaaS. [5+5]
- OR**
5. a) Explain the Features of Cloud Infrastructure Management.
 - b) Explain the Porter's five forces market Model with the help of Diagram. [5+5]
6. a) Describe briefly about Reservations with VMs.
 - b) Illustrate Amazon elastic Compute Cloud (EC2). [5+5]
- OR**
7. a) List out the Technologies for Data Security in Cloud Computing. Explain.
 - b) Explain Complete CaaS System with its Diagram. [5+5]

8.a) Explain the RESERVOIR Architecture with major components and interfaces in model federated cloud computing.

b) Distinguish between HPC systems and HPC on Cloud Environment. [5+5]

OR

9.a) How to protect your AWS credentials?

b) Explain two levels and Phases of GrepTheWeb Architecture. [5+5]

10.a) Explain Deming Cycle Model.

b) Write a note on Data Security Risk in Cloud Computing. [5+5]

OR

11.a) Describe briefly about Cloud Contracting Models.

b) How to minimize risk in Commercial and Business Considerations? [5+5]

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