

Code No: 137BC

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, December - 2019

CLOUD COMPUTING

(Common to CSE, IT)

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 as sub questions.

PART - A

(25 Marks)

- 1.a) Define the terms, Grid Computing and Quantum Computing. [2]
- b) Compare Distributed Computing with Parallel Computing and Network Computing. [2]
- c) What is cloud computing? Give a formal definition as per NIST. [3]
- d) List out and brief the principles of cloud computing. [2]
- e) What is meant by Elasticity and Multitenancy? [3]
- f) What is SLA? What is its role in Cloud Computing? [2]
- g) As per NIST give the definition of Infrastructure as a Service. [3]
- h) Write short notes on the deployment and delivery of cloud service models with a neat diagram. [2]
- i) Write a brief note on Google's Cloud storage. [3]
- j) What are the basic modules of EMC's Captiva Cloud Toolkit? [2]

PART - B

(50 Marks)

2. "Quantum Computers are millions of times faster than most powerful supercomputers today", Justify your answer. [10]
- 3.a) Discuss in detail about Nano computing and Optical Computing. OR [10]
- b) Why is it necessary to understand the various computing paradigms? [5+5]
4. Describe the five essential characteristics of Cloud Computing. OR [10]
- 5.a) Elaborate the term "Software as a Service" related to cloud computing. OR [10]
- b) Give the drawbacks of Cloud Computing paradigm. [6+4]
6. Describe the role of Network Connectivity in Cloud Computing. OR [10]
7. Explain how to attain QoS by managing by managing cloud. [10]

- 8.a) What are the pros and cons of SaaS?
b) What are the suitable conditions of PaaS? Discuss briefly. [5+5]

OR

- 9.a) What are the Services provided by PaaS? Discuss in detail.
b) Mention the characteristics of SaaS. [5+5]

- 10.a) List out and brief the features of Amazon Simple Queue Service.
b) Explain the cloud services provided by Windows Azure. [5+5]

OR

- 11.a) Briefly explains the architecture of IBM Smart Cloud with a neat architectural diagram.
b) Give a brief summary on various cloud services offered by salesforce. [5+5]

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