Code No: 137BC

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

PART – B

(50 Marks)

2.   "Quantum Computers are millions of times faster than most powerful supercomputers
       today", Justify your answer.   [10]
                                          OR
3.a) Discuss in detail about Nano computing and Optical Computing.
   b) Why is it necessary to understand the various computing paradigms?   [5+5]

4.   Describe the five essential characteristics of Cloud Computing.   [10]
                                          OR
5.a) Elaborate the term "Software as a Service" related to cloud computing.
   b) Give the drawbacks of Cloud Computing paradigm.   [6+4]

6.   Describe the role of Network Connectivity in Cloud Computing.   [10]
                                          OR
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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