R13

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)

1.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 Open nebula. [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) Elucidate SLA management in cloud.   [5+5]

10.a) Elicit the pros and cons of content level security.
   b) Distinguish Cloud Computing from outsourcing and provision of application services.
                                                                                 [5+5]

OR

11. Elucidate Cloud service life cycle.   [10]

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