

**Code No: 117BN****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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