

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.
- b) Explain any three services offered by cloud.
- c) Explain Storage virtualization.
- d) Explain high availability and data recovery.
- e) Explain Open nebula.
- f) What is lease scheduling?
- g) What are the business benefits of cloud computing?
- h) Explain Virtual administration in cloud.
- i) Explain data Interoperability in cloud.
- j) Explain software Vulnerability and Breaches in cloud.

[2]
[3]
[2]
[3]
[2]
[3]
[2]
[3]
[2]
[3]

PART-B

(50 Marks)

- 2.a) Elucidate Network threats and data integrity.
 - b) Briefly explain the design principles of computer clusters.
- OR**
- 3.a) Explain system models for distributed and cloud computing.
 - b) What are the design objectives of computer clusters?
- 4.a) Describe various deployment models in cloud.
 - b) Elucidate hardware virtualization.
- OR**
- 5.a) Explain the functions and types of Hypervisors.
 - b) Describe the features, challenges and risks in cloud computing.
- 6.a) Elucidate Amazon Elastic cloud computing.
 - b) Explain the architecture of Eucalyptus.
- OR**
7. Explain the implementation of hybrid cloud.

[5+5]
[5+5]
[5+5]
[5+5]
[5+5]
[10]

AG AG AG AG AG AG AG A

- 8.a) Explain a model for federal cloud computing. [5+5]
- b) Explain the best practices to build an application on cloud. [5+5]

OR

AG AG AG AG AG AG AG A

- 9.a) What are the External threats and Internal threats of virtualization infrastructure. [5+5]
- b) Elucidate SLA management in cloud. [5+5]

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

OR

AG AG AG AG AG AG AG A

- 11. Elucidate Cloud service life cycle. [10]

---ooOoo---

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A

AG AG AG AG AG AG AG A