

7E7031

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**7E7031**

**B. Tech. VII Sem. (Main) Exam., Nov.-Dec.-2016  
Computer Science & Engineering  
7CS1A Cloud Computing**

**Time: 3 Hours**

**Maximum Marks: 80**

**Min. Passing Marks Main : 26**

**Min. Passing Marks Back: 24**

*Instructions to Candidates:*

*Attempt any **five questions**, selecting **one question** from **each unit**. All questions carry **equal marks**. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.*

*Units of quantities used/calculated must be **stated clearly**.*

*Use of following supporting material is permitted during examination.*

*(Mentioned in form No. 205)*

1. NIL

2. NIL

**UNIT - I**

Q.1 What is cloud computing? Give and explain the challenges, risk and approaches of migration into cloud. [16]

**OR**

Q.1 (a) Write and explain the ethical issues of cloud computing in detail. [8]

(b) Write short note on ubiquitous cloud and internet of things. [8]

**UNIT - II**

Q.2 Give and explain the cloud reference model, along with its layers and types of clouds. [16]

**OR**

Q.2 (a) Give architectural design of compute and storage clouds. [10]

(b) Write short note on fractures of cloud programming. [6]

### UNIT - III

Q.3 What is virtualization technology? Explain implementation level of virtualization along with benefits of virtualization. [16]

OR

Q.3 Write short notes on the following:

- (a) Virtual cluster and resource management [8]
- (b) Virtualization of data-center. [8]

### UNIT - IV

Q.4 Explain cloud security services along with design principles and security challenges in detail. [16]

OR

Q.4 Explain data security in cloud in contrast to the following:

- (a) SLA (Service Level Agreements ) [6]
- (b) Risk Mitigation [5]
- (c) Trust Management [rtuonline.com](http://rtuonline.com) [5]

### UNIT - V

Q.5 Write short notes on following (any two): [8×2=16]

- (a) Cloud application platform – Integration of private and public cloud
  - (b) CRM and ERP
  - (c) Cloud scientific application
  - (d) Third party cloud services
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