

7E7031

Roll No. _____

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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]

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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 [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