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B.Tech. VII Semester (Main) Examination, Dec. - 2015		
Computer Science & Engineering		
7CS1A Cloud Computing		

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 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).

Unit - I

1. a) What are the broad approaches for migration into cloud? Discuss the challenges and risks involved in this process. (8)
- b) Explain the followings with reference to cloud computing (in brief):-
 - i) Ethical issues
 - ii) Networking support. (2×4)

OR

1. a) Explain the various features, characteristics and components of cloud computing system. (8)
- b) What are the various services provided by the cloud to the end user and what are its advantages. (8)

Unit - II

2. a) Explain parallel and distributed programming paradigms in cloud computing using a practical example (8)

b) Describe the following service delivery models by giving the suitable examples in industry:-

- i) IaaS
 - ii) SaaS
- (2×4)

OR

2. a) Write short notes on :-

- i) Map Reduce
 - ii) Hadoop
- (2×4)
- b) Explain various service layers in layered architecture of cloud with the help of suitable examples.
- (8)

Unit - III

3. What is virtualization ? Explain the various implementation levels of virtualization Differentiate between server and desktop virtualization

(16)

OR

3. a) What is network virtualization ? Describe the various components in network virtualization

(8)

b) Write short notes on:-

- i) VMware hypervisor
 - ii) KVM hypervisor
- (2×4)

Unit - IV

4. a) What are the types of security policies for cloud computing?

(8)

b) What is business continuity planning (BCP) ? Explain the importance & Process of BCP.

(8)

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(2)

OR

4. a) What are cloud security requirements. Explain the various security challenges in cloud computing.

(8)

b) Write short notes on:-

- i) Service level agreements
 - ii) Trust management.
- (2×4)

Unit - V

5. a) What is Google App. Explain the architecture of Google App Engine in detail.

(8)

b) What do you understand by federated cloud ? Explain using a suitable example

(8)

OR

5. a) Explain the data analysis application of cloud computing

(8)

b) Describe the system architecture of aneka using a suitable example.

(8)

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(3)