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7E7031

B.Tech. VII semester (Main/Back) Examination, Nov. 2019
Computer Sc. & Engg.
7CS1A Cloud Computing

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 26

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 risk in the Migration into Cloud? Also explain the process steps used in the migration into cloud. **(8)**

   b) What are the ethical issues in cloud computing? **(4)**

   c) Briefly describe the vision of the cloud computing towards its development in the market. **(4)**

(OR)

1. a) Describe the reasons for customer to prefer cloud computing over the traditional computing in owned infrastructure. **(8)**

   b) What are the enabling technologies for cloud computing? Explain networking support for cloud computing. **(8)**

UNIT - II

2. a) Differentiate between public, private and hybrid cloud according to their functionality. **(6)**

   b) What is need of data centres? Explain by providing case study of any industry where data centre is used. **(6)**

   c) Explain the features provided by Google App Engine. **(4)**

(OR)

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2. a) Explain the concept of parallel and distributed programming paradigms in cloud computing. (6)

b) Explain various service layers in layered architecture of cloud with help of a neat and labelled diagram. (6)

c) Explain the working of Map Reduce. (4)

UNIT - III

3. a) Explain the virtualization of CPU in details. (8)

b) What do you mean by hypervisor? Explain different types of hypervisors. (8)

(OR)

3. a) Explain the differences between emulation, native virtualization and host virtualization. (8)

b) What do you mean by virtualization of memory and I/O devices? Explain in details. (8)

UNIT - IV

4. a) Explain the cloud security requirements and give fundamental model for cloud information security. http://www.rtuonline.com (4)

b) Describe all the possible attacks that can be used to disrupt the cloud. (8)

c) Explain different legal issues in cloud computing. (4)

(OR)

4. a) Explain business continuity planning and Disaster recovery Planning. (6)

b) Explain security challenges and security architecture in cloud computing. (6)

c) Explain service level agreements in short, (4)

UNIT - V

5. a) Describe the amazon EC2 and its features. (6)

b) Illustrate the Aneka cloud application platform in respect of private cloud. (4)

c) What are Dropbox and iCloud? Explain the applications of both. (6)

(OR)

5. a) Compare Amazon, Azure and Google app Engine. (6)

b) Describe some example of CRM and ERP based on cloud computing. (6)

c) Explain Cloud federation in details. (4)

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