

Code No: **R42124**

R10

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April – 2015

CLOUD COMPUTING

(Information Technology)

Time: 3 hours

Max. Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) Explain how Service Oriented Architecture (SOA) is supported in cloud computing? [8]
b) Differentiate between Grid computing, Distributed computing and cloud computing. Also draw the relationship between them. [7]
- 2 a) Explain in detail the cloud application architecture. [8]
b) What is cloud scalability? Explain the term "Virtual desktop infrastructure". [7]
- 3 a) What makes cloud computing so interesting to IT stake holders and research practitioners? Explain. [8]
b) What do you understand by cloud analytics? Explain how it works. [7]
- 4 a) Explain database management in cloud. [8]
b) Discuss about the web application design of cloud security. [7]
- 5 a) Explain briefly Information-as-a-Service in the cloud. [7]
b) What is meant by Storage-as-a-Service? Mention the clouds that provide Storage-as-a-Service. [8]
- 6 a) Explain the reference model of Platform-as-a-Service. [8]
b) Describe the Security-as-a-Service with some examples. [7]
- 7 a) What is disaster in cloud? Explain how a disaster can be recovered with an example. [8]
b) Discuss about the different recovery plans that clouds adopt to recover the user data when disaster occurs. [7]
- 8 a) Explain about the work space of Nimbus. Compare its functionality with other IaaS clouds. [8]
b) Give the detail description about the cloud centers. [7]

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Set No. 2

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CLOUD COMPUTING

(Information Technology)

Time : 3 hours

Max. Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) Explain the virtualization in Cluster context Virtual network. [6]
b) Discuss about the Information model & data model for virtual machine. [9]
- 2 a) Explain with suitable example Map-Reduce model. [8]
b) Briefly describe the Capacity Planning in Cloud computing environment. [7]
- 3 a) Write a brief notes on cloud adoption and cloud rudiments. [6]
b) Explain the service levels for cloud applications. [9]
- 4 a) Explain the disaster recovery mechanism in cloud computing. [7]
b) Briefly explain network security and host security. [8]
- 5 a) What are the main characteristics of Application-as-a-Service? Discuss about its deployment model. [8]
b) Describe briefly Process-as-a-service in the cloud. [7]
- 6 a) Discuss the different cloud security services. [8]
b) Describe briefly Testing as service with an example. [7]
- 7 a) Write a brief notes on disaster and RPO recovery in cloud computing. [8]
b) Briefly explain the cloud disaster management. [7]
- 8 a) What are the web services provided by Eucalyptus? Explain. [7]
b) What is Open Nebula Cloud? Explain the main components of Open Nebula. [8]

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Set No. 3

IV B.Tech II Semester Regular/Supplementary Examinations, April – 2015

CLOUD COMPUTING

(Information Technology)

Time : 3 hours

Max. Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) What is the need for virtualization? Discuss its role in cloud computing. [8]
b) What are characteristics of Software as a Service (SaaS)? Explain. [7]
- 2 a) Explain the risks from multi-tenancy with respect to various cloud environments. [8]
b) Explain the key steps in cloud implementation planning process with an example. [7]
- 3 a) Explain the shift to a cloud cost model. [7]
b) Explain cloud computing issues with respect to implementing real time applications over cloud platform. [8]
- 4 a) What are the security concerns that should be considered for the cloud deployments? [8]
b) Briefly explain data security and network security. [7]
- 5 a) What are the main characteristics of Database-as-a-Service? Discuss about its deployment model. [8]
b) Discuss about the Storage-as-a-Service provided by the clouds. [7]
- 6 a) Describe briefly Governance as service with some examples. [8]
b) Discuss the Integration as service in the cloud with an example. [7]
- 7 a) What might be the reasons for disaster in cloud? Explain [7]
b) Discuss about the different recovery plans that clouds adopt to recover the user data when disaster occurs. [8]
- 8 a) Explain conceptual representation of Eucalyptus cloud. [6]
b) What features comprise the availability criteria? Compare Amazon, S3 and EC2 with respect to availability. [9]

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Set No. 4

IV B.Tech II Semester Regular/Supplementary Examinations, April – 2015

CLOUD COMPUTING

(Information Technology)

Time: 3 hours

Max. Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) Enlist and explain some of the common pitfalls that come with virtualizations. [8]
b) Describe briefly the concept of On Demand Computing. [7]
- 2 a) Explain in brief cloud desktop infrastructure with its services [8]
b) Discuss about what is and what isn't from Collaborations to Cloud [7]
- 3 a) Explain the service levels for cloud applications. [9]
b) Write about Know your software licenses. [6]
- 4 a) Explain Machine Image design and privacy design. [8]
b) How is database recovery done in cloud? Explain with an example. [7]
- 5 a) What is meant by Process-as-a-Service? Mention the clouds that provide Process-as-a-Service. [8]
b) What are the main characteristics of Application-as-a-Service? Discuss about its deployment model. [7]
- 6 a) Describe briefly Management as service with an example. [8]
b) What is Infrastructure-as-a-Service? How is this service provided? [7]
- 7 a) What is disaster in cloud? Explain about cloud disaster management. [8]
b) Explain how a disaster can be recovered with an example. [7]
- 8 a) Explain the services provided by Amazon infrastructure cloud from user perspective. [7]
b) Explain Xen Cloud Platform (XCP) with suitable block diagram. [8]