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## Question Paper Code: 37203

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Seventh Semester

Computer Science and Engineering

01UCS703 - CLOUD COMPUTING

(Regulation 2013)

Duration: Three hours                                             Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1.  What is the working principle of Cloud Computing?

2.  What are the advantages and disadvantages of Cloud Computing?

3.  Differentiate full virtualization and para-virtualization.

4.  What are the benefits of virtualization in the context of cloud computing?

5.  List the characteristics of HDFS.

6.  What is mean by NOSQL?

7.  Define data shredding technique.

8.  What risk are users running while relying on a cloud provider services?

9.  Why we need the monitoring in the cloud?

10. Why we need the monitoring in the cloud?

## PART - B (5 x 16 = 80 Marks)

11. (a) Discuss the main characteristics of NIST cloud computing reference architecture with a neat schematic diagram. (16)

Or

(b) Explain how can a company use cloud computing to design its own business applications. (16)

12. (a) (i) Explain the fundamental differences between virtual machine as perceived by a traditional operating system and system VM. (8)

(ii) Compare AJAX rich interfaces with mashups user interface services. (8)

Or

(b) Describe about information model and data model for virtual machine. (16)

13. (a) Discuss and explain the control and Dataflow in Map-Reduce Mechanism. (16)

Or

(b) Describe the building blocks, Data model and operations of Google Big Table. (16)

14. (a) Discuss briefly about the architecture and components of Cloud Security. (16)

Or

(b) Explain in detail about the identity management and access control mechanism in cloud computing. (16)

15. (a) (i) Describe the high level architecture of QoS in cloud. (8)

(ii) Discuss the various types of provisioning techniques and its parameters. (8)

Or

(b) Enlist and explain the principal design issues that are to be addressed while designing a QoS-aware distributed middleware architecture for cloud. (16)

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