Reg. No. : | | | | | | | | | | |

Question Paper Code: 31273

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

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. Define cloud computing.

2. Outline the types of cloud service development models.

3. Compare SOAP versus REST.

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

5. List the major categories of parallel computing systems.

6. What is Google BigTable?

7. Write the different types of virtualization.

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

9. Give some examples of a third-party cloud service.

10. Define the term mobile cloud.

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Discuss the various challenges and obstacles that cloud computing faces in today's scenario.   (10)

(ii) Compare Amazon EC2, Google app engine and IBM clouds. (6)

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) (i) Describe about information model and data model for virtual machine. (8)

(ii) Summarize the concept of multitenant model using cloud data models. (8)

13. (a) Describe the high-performance distributed file systems and storage clouds in detail. (16)

Or

(b) Explain the major components of the Aneka MapReduce programming model and design a simple program using MapReduce programming. (16)

14. (a) Examine the various key elements in management of security in cloud scenario. (16)

Or

(b) Explain autonomic cloud computing security challenges and techniques in VM system. (16)

15. (a) (i) Identify the various real time issues faced by the cloud users in cloud computing environment. (8)

(ii) Discuss about the types of service levels for cloud application. (8)

Or

(b) Explain in detail about quality of service monitoring in a cloud computing environment. (16)

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