

Paper Id:

110725

Roll No:

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B. TECH.
(SEM VII) THEORY EXAMINATION 2019-20
CLOUD COMPUTING

Time: 3 Hours

Total Marks: 70

Note 1. Attempt all questions equally and give answers in a neat and orderly manner.

SECTION A

1. Attempt all questions briefly. 2 x 7 = 14
- a. What is Cloud Eco System?
 - b. Differentiate between distributed Computing and Cloud Computing.
 - c. Explain Grid Computing.
 - d. Explain Hybrid Cloud.
 - e. Differentiate between public and private cloud.
 - f. What do you mean by full virtualization?
 - g. What are the major challenges faced in cloud?

SECTION B

2. Attempt any three of the following: 7 x 3 = 21
- a. Illustrate the cloud adoption discussing its several policies.
 - b. What is a Hypervisor? Explain in detail with necessary illustrations.
 - c. What is the difference between process virtual machines, host VMMs and native VMMs.
 - d. What are cloud security challenges? How is security provided to data at various stages in context of cloud?
 - e. Explain the characteristics and type of virtualization in Cloud Computing.

SECTION C

3. Attempt any one part of the following: 7 x 1 = 7
- (a) How Cloud Computing provides scalability and fault tolerance?
 - (b) Explain Virtual LAN(VLAN) and Virtual SAN(VSAN) in cloud computing.
4. Attempt any one part of the following: 7 x 1 = 7
- (a) Explain the Cloud Computing security architecture using suitable block diagram.
 - (b) What is the importance of a virtual machine? What role do they play in cloud computing?
5. Attempt any one part of the following: 7 x 1 = 7
- (a) What are the major functionalities of Hadoop API?
 - (b) Explain the Cloud management and Services Creation Tools?
6. Attempt any one part of the following: 7 x 1 = 7
- (a) What do you understand by service oriented architecture (SOA)? How does it support cloud computing?
 - (b) Draw the architecture and explain the importance of workflow management systems in cloud.
7. Attempt any one part of the following: 7 x 1 = 7
- (a) Identify NIST cloud computing reference architecture with a neat schematic diagram.
 - (b) Explain the migration of memory, files and network resources in detail.