Paper Id: | **199366** | **Roll No:** | | | | | | | | | | | | |

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

Time: 3 Hours   *Total Marks: 70*

Note: **1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt *all* questions in brief.**   **2 x 7 = 14**
    a. Define a cloud.
    b. What are the various advantages of Cloud Storage?
    c. Differentiate between traditional Computer and Virtual Machine.
    d. What is Map Reduce?
    e. Define IaaS.
    f. What do you mean by Hadoop?
    g. What information is stored in the cloud?

SECTION B

2. **Attempt any *three* of the following:**   **7 x 3 = 21**
    a. Discuss about classification of Distributed and Parallel Computing Systems.
    b. Explain about various Challenges in Cloud Computing.
    c. Explain about Platform as a Service (PaaS).
    d. Differentiate between different types of virtualization.
    e. Explain Federation in the Cloud. Give its applications.

SECTION C

3. **Attempt any *one* part of the following:**   **7 x 1 = 7**
    (a) What are the various cloud characteristics?
    (b) What are the major distributed computing technologies that led to cloud computing?

4. **Attempt any *one* part of the following:**   **7 x 1 = 7**
    (a) What is virtualization? Explain the various implementation levels of virtualization.
    (b) Why is virtualization important? Describe the characteristics of server virtualization and application virtualization.

5. **Attempt any *one* part of the following:**   **7 x 1 = 7**
    (a) Distinguish between Public Cloud and Private Cloud.
    (b) Explain briefly about various cloud services and their major providers.

6. **Attempt any *one* part of the following:**   **7 x 1 = 7**
    (a) Explain about coordinating and performance management in cloud computing.
    (b) List and discuss the issues related to global exchange of cloud services.

7. **Attempt any *one* part of the following:**   **7 x 1 = 7**
    (a) List the attractive features of Hadoop and describe about Hadoop Cluster.
    (b) What is Google app? Explain the architecture of Google App in detail.