PAPER ID-310383

**Roll No:**

## B. TECH
### (SEM-VII) THEORY EXAMINATION 2020-21
### 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 Cloud. |
|----|---------------|
| b. | What is on demand provisioning? |
| c. | Discuss Virtualization. |
| d. | Discuss Governance in Cloud. |
| e. | What do you understand by Hadoop? |
| f. | Explain federation in Cloud. |
| g. | Describe IAM. |

### SECTION B

2.   **Attempt any *three* of the following:**                             7 x 3 = 21

| a. | Explain the evaluation of cloud. |
|----|----------------------------------|
| b. | Discuss REST in Cloud Architecture. |
| c. | Discuss NIST Cloud computing reference architecture. |
| d. | What are the challenges in cloud security? |
| e. | Describe four levels of Federation in detail. |

### SECTION C

3.   **Attempt any *one* part of the following:**                          7 x 1 = 7

| (a) | Describe underlying principles of Parallel and Distributed Computing. |
|-----|-----------------------------------------------------------------------|
| (b) | Explain elasticity of Cloud. Also, discuss characteristics of cloud. |

4.   **Attempt any *one* part of the following:**                          7 x 1 = 7

| (a) | What do you understand by Virtualization structure? Discuss its types and implementation levels. |
|-----|--------------------------------------------------------------------------------------------------|
| (b) | Discuss SOA. |

5.   **Attempt any *one* part of the following:**                          7 x 1 = 7

| (a) | What are the challenges in Architectural design of Cloud? |
|-----|-----------------------------------------------------------|
| (b) | Explain SaaS and cloud storage providers. |

6.   **Attempt any *one* part of the following:**                          7 x 1 = 7

| (a) | What is Resource Provisioning and what are its different methods? |
|-----|-------------------------------------------------------------------|
| (b) | Discuss Virtual Machine Security and Security standards in cloud. |

7.   **Attempt any *one* part of the following:**                          7 x 1 = 7

| (a) | How will you describe future of federation? |
|-----|---------------------------------------------|
| (b) | Describe programming environment for Google App Engine. |