

Paper Id: 

110725
--------

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. 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.