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**B.TECH**  
**(SEM VII) THEORY EXAMINATION 2021-22**  
**CLOUD COMPUTING**

**Time: 3 Hours**

**Total Marks: 100**

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

**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- Define threat Agents? Explain their role in cloud security.
  - What are security services in the cloud?
  - What is encryption? Define the types of encryption.
  - What is utility computing?
  - What is IaaS, PaaS, and SaaS?
  - What is VM network routing?
  - Give some examples of Web 2.0 applications.
  - What are IaaS, PaaS and SaaS ?
  - What are security services in the cloud?
  - What are modules of Hadoop?

**SECTION B**

- 2. Attempt any three of the following: 10 x 3 = 30**
- What is virtual desktop infrastructure? Explain with diagram.
  - How does an unauthorized access can be detected by the help of virtualization techniques?
  - Take a suitable example and explain the concept of map reduces.
  - Explain Cloud Computing reference model with diagram.
  - What is the difference between cloud computing and distributed computing?

**SECTION C**

- 3. Attempt any one part of the following: 10 x 1 = 10**
- Explain Cloud computing security architecture.
  - Explain Infrastructure virtualization and cloud computing solutions with the help of diagram.
- 4. Attempt any one part of the following: 10 x 1 = 10**
- What are the different techniques used for implementation of hardware virtualization? Explain them in detail.
  - What is load balancing? What are the advantages of load balancing?
- 5. Attempt any one part of the following: 10 x 1 = 10**
- What are the different security challenges in cloud computing? Discuss each in brief.
  - What is Honeypot? What are the different types of Honeypot?
- 6. Attempt any one part of the following: 10 x 1 = 10**
- What do you mean by third party cloud services? Give suitable examples.
  - Explain the major cloud features of Google applications engine.
- 7. Attempt any one part of the following: 10 x 1 = 10**
- Give a suitable definition of cloud federation stack and explain it in detail.
  - Write short notes on any two of the followings:
    - HADOO
    - Microsoft Azure