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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