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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**
- a. Define threat Agents? Explain their role in cloud security.
 - b. What are security services in the cloud?
 - c. What is encryption? Define the types of encryption.
 - d. What is utility computing?
 - e. What is IaaS, PaaS, and SaaS?
 - f. What is VM network routing?
 - g. Give some examples of Web 2.0 applications.
 - h. What are IaaS, PaaS and SaaS ?
 - i. What are security services in the cloud?
 - j. What are modules of Hadoop?

SECTION B

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

SECTION C

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