Subject Code: KCS713

PAPER ID-410539

Roll No: | | | | | | | | | | | |

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

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