Subject Code: KCS713

PAPER ID-310942

Roll No:

BTECH
(SEM VII) THEORY EXAMINATION 2023-24
CLOUD COMPUTING

TIME: 3 HRS

M.MARKS: 100

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

SECTION A

1. **Attempt *all* questions in brief.**

Qno.	Question	Marks	CO
a.	Compare parallel computing and distributed computing.	2	1
b.	List the characteristics of cloud computing.	2	1
c.	Define disaster recovery.	2	2
d.	List types of Virtualizations.	2	2
e.	Define community cloud with example.	2	3
f.	List the types of services provided by cloud.	2	3
g.	Define VM security.	2	4
h.	List the security threats in cloud computing.	2	4
i.	List four levels of Federation.	2	5
j.	Define virtual box.	2	5

SECTION B

2. **Attempt any *three* of the following:**

a.	Define the need of cloud computing and explain its evolution with suitable diagram.	10	1
b.	Describe the different techniques used for implementation of Hardware virtualization. Explain them with diagram.	10	2
c.	Explain the major goal of NIST. Also explain the different layers in cloud computing.	10	3
d.	Explain resource provisioning and resource provisioning methods.	10	4
e.	Explain Hadoop and its history. Also illustrate Hadoop architecture.	10	5

SECTION C

3. **Attempt any *one* part of the following:**

a.	Discuss cloud computing delivery model with advantages and disadvantages.	10	1
b.	Describe in detail about cloud computing reference model with a neat diagram.	10	1

4. **Attempt any *one* part of the following:**

a.	Discuss Service-oriented architecture (SOA). Also explain building block of SOAP.	10	2
b.	Explain Architectural constraints of web services.	10	2

5. **Attempt any *one* part of the following:**

a.	Describe the components of Cloud Provider. Also explain the responsibility of cloud provider for SaaS, PaaS, and IaaS.	10	3
b.	Explain Amazon S3. Also describe the advantages of cloud storage.	10	3

6. **Attempt any *one* part of the following:**

a.	Explain inter cloud resource management in cloud computing.	10	4
b.	Discuss security challenges and security governance in cloud computing environment.	10	4

7. **Attempt any *one* part of the following:**

a.	Give a suitable definition of cloud federation stack and explain it in detail.	10	5
b.	Explain Web services in detail. Differentiate Web services and APIs.	10	5

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