

				Sub	oject	t Co	de: l	RCS	<u> 075</u>
Roll No:									

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

Time: 3 Hours Total Marks: 70

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

SECTION A

1. Attempt all questions in brief.

 $2 \times 7 = 14$

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- a. What is cloud? Explain its types.
- b. What is Hypervisor? Explain its types with diagram.
- c. What are the applications of cloud storage?
- d. Define threat Agents? Explain their role in cloud security.
- e. What are the four levels of cloud federation?
- f. What is the role of resource provisioning?
- g. What are cloud security controls?

SECTION B

2. Attempt any *three* of the following:

 $7 \times 3 = 21$

- a. What is cloud computing? Explain different challenges in cloud computing.
- b. Define virtualization. Why virtualization is important in cloud computing?
- c. Explain Cloud Computing reference model with diagram.
- d. What are the different types of deployment models? Explain each in brief.
- e. Explain Infrastructure virtualization and cloud computing solutions with the help of diagram.

SECTION C

3. Attempt any one part of the following:

 $7 \times 1 = 7$

- (a) What are the different techniques used for implementation of hardware virtualization?
- (b) Write the advantages and disadvantages of cloud computing.

4. Attempt any one part of the following:

 $7 \times 1 = 7$

- (a) What's virtual desktop infrastructure? Explain with diagram.
- (b) Take a suitable example and explain the concept of map reduces.

5. Attempt any one part of the following:

 $7 \times 1 = 7$

- (a) How does an unauthorized access can be detected by the help of virtualization techniques?
- (b) Explain Cloud computing security architecture.

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

 $7 \times 1 = 7$

- (a) What are the different security challenges in cloud computing? Discuss each in brief.
- (b) What are the different techniques used for implementation of hardware virtualization? Explain them in detail.

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

 $7 \times 1 = 7$

- (a) What do you mean by third party cloud services? Give suitable examples.
- (b) Give a suitable definition of cloud federation stack and explain it in detail.