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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 x 7 = 14**
- 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 x 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 x 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 x 1 = 7**
- (a) What is 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 x 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 x 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 x 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.