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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. Define the significance of cloud computing.
- b. Describe the two applications of Cloud Computing.
- c. Explain the role of Internet in Cloud Computing.
- d. Formulate the relation between mean time to failure (MTTF) and mean time to repair (MTTR).
- e. Discuss the term para-virtualization.
- f. Explain the benefits of Distributed Cloud Computing.
- g. Define the Service Oriented Architecture.

SECTION B

2. Attempt any three of the following:

7 x 3 = 21

- a. Describe Rapid Elasticity.
- b. Summarize any one of the following two layers in details.
a. Application layer, b. Resource layer
- c. Describe PaaS design for cloud computing.
- d. Analyze the resource provisioning and resource provisioning methods for Cloud computing.
- e. Evaluate four levels of federated services and its applications for cloud computing.

SECTION C

3. Attempt any one part of the following:

7 x 1 = 7

- (a) Summarize the Infrastructure as a Service in cloud computing?
- (b) Summarize characteristics of cloud computing.

4. Attempt any one part of the following:

7 x 1 = 7

- (a) Describe types of Virtualizations.
- (b) Summarize the concept of Systems of Systems for cloud computing.

5. Attempt any one part of the following:

7 x 1 = 7

- (a) Explain the Cloud management and Services Creation Tools?
- (b) Summarize the SaaS design for cloud computing.

6. Attempt any one part of the following:

7 x 1 = 7

- (a) What do you understand by service-oriented architecture (SOA)? How does it support cloud computing?
- (b) Analyze the perspective of global exchange of cloud resources and its security overview in details.

7. Attempt any one part of the following:

7 x 1 = 7

- (a) Identify NIST cloud computing reference architecture with a neat schematic diagram.
- (b) Describe in detail the open stack – federation in the cloud – four levels of federation