

**D-180319**

**B. Tech. EXAMINATION, 2018**

Semester VII (CBS)

**CLOUD COMPUTING**

**CS-704**

*Time : 3 Hours*

*Maximum Marks : 60*

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt Five questions in all, selecting *one* question from each Sections A, B, C and D. Section E is compulsory.

**Section A**

1. (a) Define Cloud Computing. Explain the cloud computing security architecture using suitable block diagram.

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- (b) How does a cloud model provide CPU virtualisation ? Explain with the of examples.

2. What is the concept of Hypervisors storage virtualisation in Cloud Computing ? Design the SPI for cloud computing.

**Section B**

3. (a) Discuss the key driver and access control that are need for secure cloud computing.  
(b) What are the various barriers to cloud computing adoption in the enterprise ?
4. Explain in detail cloud security reference model. Also explain the security risks associated with a cloud.

**Section C**

5. What are the various Identify and Access Management (IAM) practices followed for authentication, authorisation and auditing of the users accessing cloud services ?

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6. What do you mean by SaaS and IaaS. What are the advantages of "Software as a Service" (SaaS) ? Explain with suitable examples.

#### **Section D**

7. Explain the following terms in detail :
- (a) Key Privacy Concerns in Cloud Computing
  - (b) Life Cycle of Data.
8. Explain the different aspects of the internal policy and GRC compliance in detail.

#### **Section E**

##### **(Compulsory Question)**

9. Explain the following :
- (a) What are the difference components of Data Security in Cloud ?
  - (b) Why is cloud based model more economic ?
  - (c) What do you understand by public clouds and hybrid clouds ?
  - (d) Differentiate Full-Virtualization and Para-virtualisation.

- (e) Bring out the importance of Cloud Management
- (f) Give one example of PaaS Model.
- (g) How is SaaS different from PaaS ?
- (h) What is the risk of storing data in the Cloud ?
- (i) What is the role of Network Manager in IaaS Service Layer ?
- (j) Define the term "Cloud Security Alliance".

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