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# 322746(22)

## B. E. (Seventh Semester) Examination, Nov.-Dec. 2021

### (New Scheme)

### (CSE, IT Branch)

## CLOUD COMPUTING

*Time Allowed : Three hours*

*Maximum Marks : 80*

*Minimum Pass Marks : 28*

*Note :* *Attempt all questions carrying equal marks.*
*Part (a) is compulsory from each question &*
*carries 2 marks. Attempt any **two** parts from*
*part (b), (c) and (d) of each question which*
*carries 7 marks.*

### Unit-I

1. (a) What does the 'Cloud' refer to in Cloud Computing.  2

   (b) Define cloud computing and identify its core features.  7

(c) Explain the most common scenarios where : 7

   (i) aprivate cloud is preferred over a public cloud

   (ii) a public cloud is preferred over private cloud

(d) Cloud computing has evolved from various computing model like mainframe computing, client-server computing, cluster computing and grid computing. Discuss the feature of all these computing models and explain how the cloud model emerged from these computing models. 7

### Unit-II

2. (a) Define security governance. 2

(b) What are the layers in security architecture design? Explain. 7

(c) Explain in detail about software as a service security. 7

(d) Explain third party authentication using the Oauth protocol. What is open ID. 7

### Unit-III

3. (a) Define anything-as-a-service. 2

(b) Compare SaaS, IaaS, PaaS. 7

(c) What are the functionalities provided by MAAS service providers and CAAS service providers? 7

(d) Explain SAAS with example. 7

### Unit-IV

4. (a) Mention the full form of the following abbreviations : 2

   (i) SOAP

   (ii) REST.

(b) Enlist the difference between MSP and cloud service provider. 7

(c) Explain SOA alongwith its advantages. 7

(d) Write a short note on open source software. 7

### Unit-V

5. (a) Define virtual machine manager. 2

(b) What is Virtualization? What are the advantage of virtualization? 7

(c) Write short notes on : 7

    (i)   Storage virtualization ;

    (ii)  Network virtualization

(d)  What are Smart Phones? List the features of mobile operating system for smart phones.   7