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**B. E. (Seventh Semester) Examination,
April-May 2020/NOV-DEC 2020**

(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) Give examples of public cloud services.

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(b) Some statements are given below regarding the cloud computing model. Mark each of them as either True or False. Justify your answer with proper argument, example or a counter example. Marks will be provided only if correct justification is provided. 7

(i) Cloud computing is only for start-up organizations and small companies which cannot afford the cost of expensive servers and other IT infrastructure.

(ii) Deploying and application over the cloud model brings dependency of the client over the cloud vendor. If the cloud vendor's servers are down the client will have to incur a loss of business. The vendor becomes the owner of the client's data stored on servers and can use them for any purpose.

(iii) Cloud computing provides enhanced level of security and performances to any application. This is because cloud vendors use latest security softwares and load balancers to provide high security and performance.

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(iv) Private cloud deployment provides better security and control than public cloud for the client, so sensitive applications should be deployed only on private cloud services.

- (c) Explain the most common scenario where . 7
- (i) a private cloud is preferred over a public cloud.
- (ii) a public cloud is preferred over private cloud.
- (d) Describe the evolution of cloud computing. 7

Unit-II

2. (a) What is vendor lock-in? 2
- (b) Explain Identity Access Management (IAM) in detail. 7
- (c) What are the layers in security architecture design? Explain. 7
- (d) What is Software-as-a-service? What advantages does the software vendor have by delivering a software-as-a-service using the SaaS based subscription model rather than selling the 'software as a packaged product'? 7

Unit-III

3. (a) What is anything-as-a-service? 2
- (b) Describe the services provided by the MAAS and CAAS service providers. 7
- (c) Write notes upon : 7
- (i) SaaS
- (ii) PaaS
- (d) Describe the various products and services offered by Google under cloud computing services. 7

Unit-IV

4. (a) What is SOAP? 2
- (b) Discuss the infrastructural requirements for establishing a modern data center. Also describe the environmental effects of data center. 7
- (c) Differentiate between MSP and Cloud Service Provider. 7
- (d) How SOA is helpful for promoting Cloud computing environment? Write advantages of SOA. 7

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Unit-V

5. (a) What is Virtualization? 2
- (b) Write notes on Type-I Hypervisors and Type-II Hypervisors. 7
- (c) Write down the differences between Storage Area Networks (SAN) and Network Attached Storage (NAS). 7
- (d) Describe the features of Mobile Operating Systems for smart phones by taking a case study. 7

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