

Seat No. : 214

**SK-135**

**September-2020**

**B.C.A., Sem.-VI**

**SEC-302 : Cloud Computing**

**Time : 2 Hours]**

**[Max. Marks : 50**

- Instructions :**
- (1) All Questions in **Section I** carry equal marks.
  - (2) Attempt any **TWO** questions in **Section I**.
  - (3) Question **5** in **Section II** is **COMPULSORY**.

**Section – I**

1. (A) (i) Explain various characteristics of cloud computing. 5  
(ii) What is Cloud Computing Reference Model? Draw and explain. 5  
(B) (i) Explain any one cloud computing technology in detail. 5  
(ii) What are the challenges of cloud computing ? 5
2. (A) (i) Explain MIMD architecture of parallel computing in detail. 5  
(ii) Explain with diagram the role of web services in service computing. 5  
(B) (i) Define SOA and explain its characteristics. 5  
(ii) Explain System Architecture Style in detail. 5
3. (A) (i) Draw and explain the machine reference model. 5  
(ii) What are the characteristics of virtualized environment ? 5  
(B) (i) Explain the benefits and threats of virtualization in cloud computing. 5  
(ii) Draw and explain the desktop model of full virtualization. 5
4. (A) (i) What are the fundamental components of cloud reference model ? 5  
(ii) Explain the advantages and disadvantages of private cloud. 5  
(B) (i) Explain the main characteristics of PaaS solution. 5  
(ii) What is heterogeneous cloud ? Explain in detail. 5

## Section - II

(5 × 2 = 10)

5. MCQs Any Five :

- (i) CSPs is termed as \_\_\_\_\_.  
(A) Cloud Service Providers (B) Cloud Service Producers  
(C) Cloud System Providers (D) Cloud System Producers
- (ii) \_\_\_\_\_ cloud network is available within an organization.  
(A) Private (B) Public  
(C) Hybrid (D) System
- (iii) X in XaaS stands for \_\_\_\_\_.  
(A) Extra (B) Everything  
(C) Express (D) Expert
- (iv) Uniprocessors are used in \_\_\_\_\_ machines.  
(A) SISD (B) CISC  
(C) SISC (D) CSIC
- (v) \_\_\_\_\_ is the characteristic of a service.  
(A) Boundaries are explicit.  
(B) Services are autonomous.  
(C) Services share schema and contracts.  
(D) All of the above
- (vi) Job distribution approach is used in \_\_\_\_\_ model.  
(A) farmer (B) worker  
(C) farmer and worker (D) Distributor
- (vii) The least privileged level for security is  
(A) Ring 0 (B) Ring 1  
(C) Ring 2 (D) Ring 3
- (viii) Virtualization can be of \_\_\_\_\_ type.  
(A) storage (B) network  
(C) desktop (D) All of the above
- (ix) \_\_\_\_\_ pricing strategy is adopted by the service providers for pricing models.  
(A) tiered (B) per-unit  
(C) subscription-based (D) All of the above
- (x) Users of \_\_\_\_\_ cloud shares same concerns or needs.  
(A) public (B) private  
(C) hybrid (D) community