

Roll No. ....

Total Pages : 3

**MCS/M-20**

**10566**

**CLOUD COMPUTING**

Paper–MS-15-44(i)

Time Allowed : 3 Hours]

[Maximum Marks : 80

**Note** : Attempt **five** questions in all, selecting at least **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Answer the following questions in brief : 4×4=16
  - (a) Discuss the community and hybrid clouds.
  - (b) Discuss content delivery services of cloud computing.
  - (c) Discuss the key contractual elements of an infrastructural SLA.
  - (d) How can you create class in Python? Discuss using example.

**UNIT-I**

2. (a) Discuss Cloud computing and the main characteristics of cloud computing. 8

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- (b) Discuss the Seven-Step Model of Migration into a Cloud. 8
- 3. Discuss the virtualization of following Levels : 16
  - (i) Operating system.
  - (ii) Application.
  - (iii) Network.
  - (iv) Storage.

## **UNIT-II**

- 4. Discuss the following Cloud Services : 16
  - (i) Database services.
  - (ii) Application services.
  - (iii) Analytics services.
  - (iv) Identity and Access management services.
- 5. (a) Explain the structure of Federated Cloud. What are various security concerns for Federated Cloud? 8
- (b) What is Multimedia cloud computing? Discuss various types of streaming protocols used in multimedia cloud computing. 8

### **UNIT-III**

6. (a) Explain various activities performed under various phases of SLA management in cloud. 10
- (b) Briefly discuss the Automated policy-based management. 6
7. What are various Data privacy and Security issues in Cloud computing? Discuss. 16

### **UNIT-IV**

8. (a) Discuss various design considerations for Cloud applications. 8
- (b) Explain the reference architecture for Cloud applications. 8
9. (a) How can you read and write files in Python? Explain using examples. 8
- (b) What does Python support the Functional programming? Explain using example. 8