Roll No. ....   Total Pages : 3

MCA/D-19   **10028**

CLOUD COMPUTING

Paper–MCA-14-55(V)

Time Allowed : 3 Hours}   [Maximum Marks : 80

Note: Attempt **five** questions in all. Question no. **one** is compulsory. Attempt **four** more questions selecting **one** question from each Unit.

1. Answer the following questions in brief— 4×4=16

    (a) Explain characteristics of cloud computing.

    (b) Explain different scenarios of federated cloud computing.

    (c) Explain four main features of Python.

    (d) What is for loop in Python? Explain use of Else keyword in for loop with an example.

UNIT-I

2. (a) What is Cloud computing? Explain advantages and disadvantages of using Cloud Computing.   8

    (b) What is hypervisor? Explain working of any one hypervisor in detail.   8

3. Explain the following—

    (a) Application Virtualization   8

    (b) Platform virtualization.   8

UNIT-II

4. Write short note on following services with one case study—

    (a) Compute Service   8

    (b) Queuing Service   8

5. (a) What is federated cloud computing? Explain layers enchantments in the architecture of federated cloud computing.   8

    (b) Explain different types of streaming protocols used in multimedia cloud computing.   8

UNIT-III

6. (a) Explain the following data structures in Python with examples: strings, lists, dictionaries and tuples.   8

    (b) How can you read/write data from/to a file in Python? Explain with an example.   8

7. (a) How do you implement inheritance in Python? Explain with an example. 8

   (b) Explain control statements in Python with examples. 8

UNIT-IV

8. (a) What is lambda function in Python? Explain its use by giving two different examples. 8

   (b) What are iterators in Python? Explain by giving a suitable example. 8

9. Write short note on the following packages—

   (a) JSON 8

   (b) SMTPLib 8