CAMQ/D-20 **24065**

CLOUD COMPUTING

Paper - MCA-14-55 (V)

Option–V

Time allowed : 3 Hours   *Maximum Marks : 80*

Note : Attempt **five** questions in all, selecting **one** question from each unit. Question No. **1** is compulsory.

Compulsory Question

1. Answer the following questions in brief :

    (i) Differentiate among public, private and community clouds. 3

    (ii) What are content delivery services? Explain in brief. 3

    (iii) What are different file opening modes in Python? Explain. 3

    (iv) What are variables in python? How can you assign many values to multiple variables? Explain with an example. 4

(v) Explain lambda function in Python with suitable example. 3

UNIT-I

2. (i) Discuss the enabling technologies of cloud computing. 8

(ii) What is hypervisor? Explain its working with suitable diagram. 8

3. Write short note on the following :

(i) Storage virtualization 8

(ii) Application virtualization 8

UNIT-II

4. (i) What is queuing service? Explain the main features of Amazon Simple Queue Service. 8

(ii) What are application services? Explain the features of Google App Engine. 8

5. (i) What are media services? Explain the features of Amazon Elastic transcoder. 8

(ii) What do you mean by federated cloud computing? Discuss layer enhancement of federation. 8

UNIT-III

6. (i) What are tuples in Python? Explain four different operations on tuples with examples.   8

    (ii) What are dictionaries in Python? Explain four different operations on dictionaries with examples.   8

7. (i) What is functional programming paradigm? How is it related to Python? Explain.   8

    (ii) Explain use of break, continue, pass and range() in for loops in Python.   8

UNIT-IV

8. (i) What is Django package? Discuss the prerequisites to create a project in Django. 8

    (ii) How can you create 2D arrays in NumPy and iterate using nditr()? Explain with an example.   8

9. (i) Explain how Python can be used for Windows Azure platform.   8

    (ii) Distinguish between a Python module and a package by giving examples.   8