MCA/D-16
CLOUD COMPUTING
PAPER-MCA-14-55(V)

Time Allowed: 3 Hours Maximum Marks: 80

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Unit-I

1. Answer the following questions in brief :
   (a) Explain the terms cloud computing, utility computing, Web 2.0 and elastic computing.
   (b) What are the benefits of HTTP live streaming over RTMP?
   (c) Write a Python program to find the god of two numbers with recursion.
   (d) Explain the use of PiCloud and Django for cloud application development.

Unit-II

2. (a) Explain the cloud architecture with the help of suitable diagram.
   (b) What are different types of deployment models used in Clouds? Explain the main characteristics of each model.

3 What do you mean by virtualization? Explain OS, storage and application virtualization in detail.

Unit-III

4. (a) What are Application Services on cloud? Discuss the main features of Google App Engine.
   (b) What is queuing, notification and content delivery services on cloud.

5. (a) What is Multimedia cloud computing? Discuss HTTP dynamic streaming protocol.
   (b) What do you mean by Federated Cloud Computing (FCC)? Discuss a model OF FCC..

Unit-IV

6. (a) How can you define functions in Python? Explain with a suitable example.
   (b) What do you mean by inbuilt packages in Python.

7. Explain the use of dictionaries in Python. How are dictionaries different from lists and tuples in Python?

Unit-V

8. (a) Why is Python called as a functional programming language? Give reasons.

   (b) What is the need of Higher order functions. Use the Higher order functions to write a function that returns the length of longest words in a list.

8. Explain the use of python for cloud based application development using suitable examples.