1129

B.E. (Computer Science and Engineering)
Seventh Semester
CS-705C: Cloud Computing

Time allowed: 3 Hours

Max. Marks: 50

NOTE: *Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.*

x-x-x

I.  Attempt the following:-

   a) What are the main characteristics of a Platform-as-a-Service solution?

   b) Differentiate between Type-1 and Type-11 hypervisors.

   c) What is HDFS? How does name node differs from a data node?

   d) What are the characteristics of Big Data? Discuss in brief.

   e) What is Cloud Migration? Discuss in brief.                (5x2)

## UNIT – I

II.  a) What are the different cloud deployment models? Discuss the characteristics of each.

   b) Briefly "discuss the characteristics of programming language-level virtualization and application-level virtualization. How do they differ from each other?    (2x5)

III. a) What are the different actors in a Cloud Computing Reference Architecture? Discuss the role of each in brief.

   b) Compare the characteristics of NAS and SAN.                (2x5)

IV.  Write notes on the following: -
   a) Network Virtualization
   b) Storage as a Service                                       (2x5)

## UNIT – II

V.  What do you understand by MapReduce Programming Model? Discuss the steps involved for the solution of a 'Mapreduce Programming-problem that intends to count the appearance of each word in a set of documents: Appropriately assume any required information yourself.                              (10)

P.T.O.

VI.  a) How Cloud Security Controls can be categorized? Discuss each with suitable examples.

b) What do you understand by mobile code offloading? Explain Code Offloading Architecture with the help of a diagram.                                    (2x5)

VII.  Write notes on the following:-

a) Cloud Security issues and challenges

b) Features of Microsoft Azure Cloud Platform                              (2x5)

x-x-x