BRAINWARE UNIVERSITY

Course – MCA

Cloud Computing (MCA404C)

(Semester – 4)

Time allotted: 3 Hours   **Full Marks : 70**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group –A

(Multiple Choice Type Questions)   10 x 1 = 10

1. *Choose the correct alternative from the following*

(i)   Correct order to import hadoop in java base

     a. org.apache.hadoop   b. org.hadoop

     c. org.hadoop.apache   d. hadoop.*

(ii) How does pagerank algorithm helps Google?

     a. Storage   b. IaaS

     c. PaaS   d. Determine the importance of a particular page.

(iii) Which of the following is/are a deployment model?

     a. Public   b. Private

     c. Hybrid   d. All of these

(iv) What is the need of reducer in apache Hadoop?

     a. A framework   b. storage

     c. Cloud data center   d. PaaS

(v) What is amazon aws?

    a. Cloud Service   b. Programming language

    c. Operating System   d. Database server

(vi) What is the full form of HDFS?

    a. Hadoop Database File System   b. Hadoop Distributed File System

    c. Hadoop Data File System   d. Hadoop Data For service

(vii) What is the need of mapper in apache Hadoop?

    a. A framework   b. IaaS

    c. Cloud vendor   d. SaaS

(viii) What is the full form of SOA?

    a. Software Of Analysis   b. Service Of Access

    c. Service Oriented Architecture   d. Software Oriented Architecture

(ix) How we can protect a password over cloud?

    a. By hashed password   b. By user access

    c. By cloud service model   d. IaaS

(x) What is the reducer in apache Hadoop?

    a. Disk space   b. HDFS

    c. Framework   d. Function

Group – B

(Short Answer Type Questions)   3 x 5 = 15

Answer any *three* from the following

2. What is PaaS? Explain the architecture of PaaS.   [5]

3. How resource allocation can be maintained in cloud computing?   [5]

4. How data can be protected in cloud computing to ensure data security?   [5]

5. What is Hadoop distributed file system architecture?   [5]

6. What do you mean by virtualization in cloud computing?   [5]

Group – C

(Long Answer Type Questions)   3 x 15 = 45

Answer any *three* from the following

7. (a) Briefly explain the inter cloud resource management techniques.   [10]

    (b) What are the different cooling techniques available for cloud data
         centers?   [5]

8. (a) Write a structure of map and reduce in a big data file with an
         example.   [10]

    (b) Discuss the difference between cloud computing and virtualization.   [5]

9. (a) What do you mean by two level resource allocation techniques?   [5]

    (b) Write down the architectural design of DAS,SAN and NAS.   [10]

10. (a) Write a structure of Apache Hadoop mapreduce with a data set.   [8]

    (b) Discuss in brief about the HDFS.   [7]

11. (a) What do you mean by cloud trust management?   [5]

.   (b) Write down the architectural design of different cloud storage
         models.   [10]