

16558(D) - 0 DEC 2016

MCA 4th Semester Examination

Cloud Computing (NS)

MCA-E45

Time : 3 Hours

Max. Marks : 60

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt five questions in all. Attempt one question from each section A, B, C & D. Question no. 9 in section E is compulsory and candidate is required to answer all the parts.

**SECTION - A**

1. Define Cloud Computing with example. What are the properties of Cloud Computing? (10)

OR

2. Explain SAAS, PAAS and IAS. What are the advantages and disadvantages of Cloud Computing? (10)

**SECTION - B**

3. What do you mean by virtualization of technology? What are the applications of virtualization? What are the various pitfalls of virtualization? (10)

OR

4. Explain Sky computing. How load balancing and resource optimization is performed in cloud computing? (10)

**SECTION - C**

5. Discuss the various aspects of data in cloud computing. Explain GFS and HDFS. (10)

OR

6. What are the various features of GFS and HDFS? Compare and contrast GFS and HDFS. (10)

**SECTION - D**

7. What is micro-architecture? Discuss identity management and access control identity management. (10)

OR

8. What are the various challenges in maintaining security in cloud computing? Discuss VM-specific security techniques. (10)

**SECTION - E**

9. Write short note on the following.
  - (a) What is the working principle of Cloud Computing?
  - (b) Define Google App Engine.
  - (c) Cloud services.
  - (d) Deployment of service on cloud.
  - (e) Define Big Table.
  - (f) What are the various issues in intercloud environment?
  - (g) Qos on cloud.
  - (h) Secure communication in cloud. (8×2½=20)