Model Questions

SKR/KW/24/2185

Faculty of Science & Technology

Eight Semester B.E. (Information Technology) (C.B.S.) Examination

CLOUD COMPUTING

Elective—IV

Time—Three Hours]   [Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

(1) All questions carry marks as indicated.

(2) Solve Question No. **1 OR** Question No. **2**.

(3) Solve Question No. **3 OR** Question No. **4**.

(4) Solve Question No. **5 OR** Question No. **6**.

(5) Solve Question No. **7 OR** Question No. **8**.

(6) Solve Question No. **9 OR** Question No. **10**.

(7) Solve Question No. **11 OR** Question No. **12**.

(8) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) Explain cloud computing in nutshell. 7

   (b) Explain the risks related to cloud computing. 6

OR

2. (a) Describe in detail NIST model and deployment model. 7

   (b) Explain stacks in cloud computing. 6

3. (a) Differentiate between salesforce.com versus Force.com. 6

   (b) How SaaS can be helpful to salesforce.com ? 4

   (c) Explain the following terms :

      (i) Machine Imaging

      (ii) Hypervisors. 4

OR

4. Write short notes on (any **THREE**) :

   (i) Hypervisors

   (ii) Machine Imaging

   (iii) Load Balancing

   (iv) IDass. 14

MI—8188   1   (Contd.)

Model Questions

5. Explore Google Web Services by discussing the following concepts

    (i) Indeed search

    (ii) The dark web

    (iii) Adwords

    (iv) The Google APIs

    (v) Google APP Engine. 13

<div align="center">OR</div>

6. (a) Explain the architecture of Amazon EC2. What are its uses ? 7

    (b) Why there is need of MapReduce model ? Give its algorithm for job execution. 6

7. (a) What are the challenges involved in migration between the private and public clouds ? Explain it in short. 7

    (b) What are the different types of cloud application ? Explain in detail. 6

<div align="center">OR</div>

8. (a) What are the broad approaches to migrating into the cloud ? 5

    (b) What are the steps needed to ensure a successful cloud migration ? Explain in detail. Also list out any best cloud migration tools for your business. 8

9. What do you understand by cloud security ? How to secure the cloud ? How to get Data Secured ? 14

<div align="center">OR</div>

10. (a) Explain the difference between cloud backup, online backup and remote backup with an example. 7

    (b) Explain different cloud security and storage challenges. 7

11. Discuss the following open source cloud computing platforms :

    (i) Eucalyptus

    (ii) OpenNebula. 13

<div align="center">OR</div>

12. (a) What is eucalyptus in the content of cloud computing ? Explain in detail. 7

    (b) Discuss MapReduce and Dryad in brief. 6

Model Questions

PRS/KS/24/2512

Faculty of Science and Technology
B.E. (Information Technology) Semester—VIII (C.B.S.) Examination
CLOUD COMPUTING
Elective – IV

Time : Three Hours]   [Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

(1) All questions carry marks as indicated.

(2) Solve question **1 OR** question No. **2**.

(3) Solve question **3 OR** question No. **4**.

(4) Solve question **5 OR** question No. **6**.

(5) Solve question **7 OR** question No. **8**.

(6) Solve question **9 OR** question No. **10**.

(7) Solve question **11 OR** question No. **12**.

(8) Assume suitable data wherever necessary.

(9) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) Explain concept of cloud computing stack with suitable diagram.   6

    (b) Define cloud computing in detail. What are the advantages and disadvantages of cloud computing ?   7

OR

2. (a) Explain cloud computing architectures. Discuss how cloud computing works.   7

    (b) What is open stack in cloud ? Explain with architecture.   6

3. (a) Give block diagram of various services of Cloud and explain infrastructure as service.   7

    (b) Explain the following services :   7

      (a) IdaaS

      (b) CaaS.

OR

4. (a) Explain the concept of load balancing and its importance in Cloud computing.   7

    (b) Explain the concept Hypervisors.   7

5. (a) How Google web services utilize Cloud services ? Explain.   7

    (b) Explain Amazon web services with reference to Cloud.   6

OR

6. (a) Explain the architecture of Amazon EC2. What are its uses ?   6

    (b) Differentiate between Microsoft Azure and AWS.   7

Model Questions

7. (a) What are different reasons for migrating into cloud ?   6

    (b) What are the challenges involved in migration between the private and public clouds ?   7

OR

8. (a) Explain the seven step model of migration into cloud.   7

    (b) Explain applications in Cloud API.   6

9. (a) What do you understand by Cloud security ? How to secure the Cloud ?   7

    (b) Explain different security mechanisms in the Cloud.   7

OR

10. (a) What is the difference between data storage in Cloud based systems and in standalone

         systems ?   7

    (b) What do you understand by managed and unmanaged Cloud storage.   7

11. (a) Explain Eucalyptus open-source Cloud computing platform.   7

    (b) Explain the architecture and components of Open Nebula.   6

OR

12. (a) What are the future trends in Cloud computing ?   7

    (b) How Cloud computing model is implemented in smart phones ? Explain.   6