[6263]-126

B.E. (E & TC)
CLOUD COMPUTING
(2019 Pattern) (Semester - VII) (404183)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates :

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right side indicate full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) Describe the concept of storage virtualization and explain its implementation methods. **[6]**

b) Explain Virtual Cluster and Resource Management. **[6]**

c) Discuss the disadvantages of Hardware Level Virtualization along with the solutions to overcome. **[6]**

OR

Q2) a) Explain Full and Para Virtualization with example. **[6]**

b) Describe different types of Virtualization. **[6]**

c) Define virtual cluster and compare it with physical cluster. **[6]**

Q3) a) Explain the design principles of Cloud Computing Architecture (COA).**[6]**

b) Draw and explain Cloud Computing Life Cycle. **[6]**

c) Explain any four types of threats and attacks on cloud specifying which security goal it affects. **[5]**

OR

Q4) a) Describe the top threats identified by Cloud Security Alliance (CSA).**[6]**

b) Enlist the types and explain the functions of firewall. **[6]**

c) Elaborate the implementation of CIA security model. **[5]**

P.T.O.

Q5) a) Explain Google App Engine application life cycle. **[6]**

b) Explain Amazon compute and storage services of AWS. **[6]**

c) Explain the different Cost Models in cloud computing. **[6]**

OR

Q6) a) Enlist the AWS load balancing services. Also Describe Elastic Load Balancer. **[6]**

b) Write short on Microsoft Azure. **[6]**

c) Explain different services provided by Google Cloud Platform. **[6]**

Q7) a) Describe in brief the following enabling technologies of IoT. **[6]**

　i) WSN

　ii) Big Data Analytics

b) Describe the working of distributed computing and its needs. **[6]**

c) Explain the benefits of Online Networking over Traditional Networking.**[5]**

OR

Q8) a) Define IoT and Explain its any two innovative applications. **[6]**

b) Differentiate between Distributed Computing and Cloud Computing. **[6]**

c) Explain the need for Professional Networking and its benefits. **[5]**

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