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

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:
1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right carry full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) Describe the structure and types of virtualization. **[6]**

    b) Explain in brief Virtual Clusters. **[6]**

    c) Write short notes on: **[6]**

       i) Desktop virtualization.

       ii) Network virtualization.

OR

Q2) a) Describe the components of virtual machine. **[6]**

    b) Describe the various methods of implementing storage virtualization. **[6]**

    c) Compare Type I and Type II hypervisors with the help of diagram. **[6]**

Q3) a) Explain the design principles of cloud computing services. **[6]**

    b) Draw and explain cloud computing life cycle. **[6]**

    c) Enlist the elements of cloud security architecture with suitable diagram. **[5]**

OR

Q4) a) Elaborate the cloud computing reference architecture. **[6]**

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

    c) Describe the security challenges for cloud service customers. **[5]**

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Q5) a) Explain the steps to create and manage associated objects for Amazon S3 Bucket. **[6]**

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

c) Explain the different cost models in cloud computing. **[6]**

OR

Q6) a) Describe Amazon EC2 cloud in brief considering following points: **[6]**

    i) Amazon Machine Image

    ii) Amazon Cloud Watch

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

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

Q7) a) Draw and explain the architecture of the IoT. **[6]**

b) Define Distributed Computing and discuss the different types of Distributed System. **[6]**

c) Explain any two enabling technologies for IoT. **[5]**

OR

Q8) a) Explain any three innovative applications of IoT. **[6]**

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

c) Write short note on: Online social and Professional Networking. **[5]**

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