

Total No. of Questions : 8]

SEAT No. :

PA-939

[Total No. of Pages : 2

[5927]-380
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 and Q.3 or Q.4 and Q.5 or Q.6 and Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) Define virtualization. Explain the characteristics and benefits of virtualization. [6]
b) Describe operating system virtualization with the help of suitable diagram. [6]
c) Differentiate between Type 1 and Type 2 hypervisor. [6]

OR

- Q2)** a) Explain benefits of virtual clusters and differentiate between virtual cluster and physical cluster. [6]
b) Explain the methods of storage virtualization. [6]
c) Describe various implementation levels of virtualization. [6]
- Q3)** a) Discuss the types of data security in detail. [6]
b) Draw and explain the cloud CIA security model. [6]
c) Write a note on cloud computing life cycle. [5]

OR

- Q4)** a) Describe fundamental components and characteristics of service oriented architecture. [6]
b) Explain the role of host security in SaaS, Paas and IaaS. [6]
c) Write a note on Firewall. [5]

P.T.O.

- Q5)** a) Explain the different cloud computing platforms. [6]
b) Draw and explain the architecture of Google App Engine. [6]
c) Differentiate between Google cloud platform and Amazon Web Services. [6]

OR

- Q6)** a) Discuss the various roles provided by Azure operating system in compute services. [6]
b) Draw and elaborate various components of Amazon Web Service (AWS) architecture. [6]
c) Describe the steps involved in creating an EC2 instance. [6]
- Q7)** a) Write a note on distributed computing. [6]
b) Identify and elaborate different IoT enabling technologies. [6]
c) Describe the different types of distributed systems. [5]

OR

- Q8)** a) Write a note on role of embedded system in implementation of IoT. [6]
b) Describe any two innovative applications of Internet of Things. [6]
c) Describe the IoT application for online social networking. [5]
