Total No. of Questions : 8]

SEAT No. :

P-7630

[Total No. of Pages : 2

[6180]-150

T.E. (Information Technology)

CLOUD COMPUTING

(2019 Pattern) (Semester - II) (314454C) (Elective - II)

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 side indicate marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) What are the different standards for application developers on cloud platform? **[8]**

b) Differentiate between cloud and grid. **[4]**

c) What are the main elements in windows Azure. Explain the significance of each. **[6]**

OR

Q2) a) How are Spot Instance, On-demand Instance, and Reserved Instance different from one another in Amazon web services. **[6]**

b) Explain the architecture of Google App Engine with neat diagram. **[8]**

c) Explain the significance of Open Cloud Test-bed. **[4]**

Q3) a) Enlist the different components of google file system, explain the significance of each. **[9]**

b) Explain the features and advantages of DynamoDB. Differentiate between SQL and NoSQL. **[9]**

OR

Q4) a) What are the advantages of HDFS and how it is different than GFS. **[9]**

b) Explain various stages in MapReduce with an Example? **[9]**

P.T.O.

Q5) a) List down the enabling technologies used in IoT. Explain any one application of using sensor networks in Internet of things. **[9]**

b) Differentiate between active and passive tags used in RFID. **[8]**

OR

Q6) a) Write short note on Smart Power Grid. Explain with neat diagram. **[9]**

b) What are different components of ZigBee. Explain the significance of each. **[8]**

Q7) a) What is autonomic Computing? Explain the need and various areas supported by autonomic Computing. **[9]**

b) Explain the Docker architecture with neat diagram. **[8]**

OR

Q8) a) What are the advantages of Mobile Cloud computing? Explain with an application. **[9]**

b) Write short note on : **[8]**

i) Mobile Cloud

ii) Home-Based Cloud Computing

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