

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

