

Total No. of Questions : 8]

PE2594

SEAT No. :

[Total No. of Pages : 2

[6583]-125

T.E. (Information Technology)

CLOUD COMPUTING

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

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answers : 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 indicate full marks.*
- 4) *Assume Suitable data if necessary*

Q1) a) Explain application life cycle of Google AppEngine. [6]

b) Write short note on: [6]

i) Ajax

ii) JSON

c) Explain features of Azure SQL database. [6]

OR

Q2) a) Draw and explain architecture of Google AppEngine. [6]

b) What is AWS compute service? Elaborate on each category of compute services. [6]

c) Differentiate between Azure SQL and SQL Database. [6]

Q3) a) Explain advantages and disadvantages of Cloud-Based Solutions. [6]

b) Draw & explain General Architecture of Google File System (GFS)? [6]

c) List and explain the security issues in cloud. [5]

OR

Q4) a) What is fault tolerance. Explain characteristics of fault tolerance. [6]

b) Differentiate between GFS and HDFS. [6]

c) Justify the statement “Prepare for graceful failure in case of a cloud provider outage”. [5]

P.T.O.

- Q5)** a) Explain the Architecture of the Internet of Things. [6]
b) Write a short note on Global Positioning System (GPS). [6]
c) Write a short note on. [6]
i) Smart Power Grid
ii) Smart Buildings

OR

- Q6)** a) Explain Cloud Mashups for Agility & Scalability in detail. [6]
b) Explain Data Intensive Scalable Computing. Differentiate between Conventional Supercomputer and Data Intensive Scalable Computing. [6]
c) Write a short note on Wireless Sensor Networks (WSN). [6]

- Q7)** a) What exactly is Docker? Draw and describe the docker deployment workflow. [6]
b) What is an energy-conscious cloud? Explain in detail. [6]
c) Explain cloudlets in terms of mobile cloud computing with a diagram. [5]

OR

- Q8)** a) Explain traditional deployment workflow and docker, docker's client server architecture. [6]
b) Write a short note about: Intelligent fabric and Paints. [6]
c) Discuss the future of cloud Based on Smart devices [5]

