

Total No. of Questions : 10]

SEAT No. :

P3119

[5154]-686

[Total No. of Pages :2

B.E. (Computer Engineering)

CLOUD COMPUTING (Elective - III)

(2012 Pattern) (Semester - II) (End Semester) (410451C)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
- 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 conceptual architecture of Open Stack and its modes of operation. [5]

b) List and explain primary challenges in cloud computing. [5]

OR

Q2) a) Explain different operational and economical benefits of using cloud. [5]

b) Elaborate role of Grid Computing technologies in Cloud Computing. [5]

Q3) a) What do you mean by virtualization? Differentiate between full virtualization and para virtualization. [5]

b) Write a short note on : HDFS. [5]

OR

Q4) a) Discuss the significance of Hypervisor in cloud? Define Server virtualization and Application virtualization. [5]

b) Write a short note on : GFS(Google File System). [5]

Q5) a) Explain virtual machine migration techniques in detail. [8]

b) Elaborate Anatomy of cloud infrastructure. [8]

OR

Q6) a) Explain scheduling techniques in cloud computing. [8]

b) Explain VM provisioning process in detail. [8]

P.T.O.

- Q7)** a) Write a short note on : Federated Cloud Computing. [6]
b) Differentiate SOAP v/s REST. [6]
c) Explain key components of SLA. [6]

OR

- Q8)** a) Differentiate HPC v.s. Cloud Computing. [6]
b) Compare performance of HPC system and HPC on cloud. [6]
c) Explain Life Cycle of SLA. [6]

- Q9)** a) Explain technologies for Data Security in cloud Computing. [8]
b) Write a short note on : Security-As-A-Cloud service. [8]

OR

- Q10)** a) List and explain risks in cloud computing. [8]
b) Write a short note on : Identity management and access control in cloud computing. [8]

