

Total No. of Questions : 10]

SEAT No. :

P3566

[Total No. of Pages : 2

[4959] - 1166

**B.E. (Computer Engineering) (Semester - II)**

**CLOUD COMPUTING**

**(2012Pattern) (Elective - III (c))**

*Time : 2 $\frac{1}{2}$  Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Assume suitable data if necessary.*

- Q1)** a) Write a short note on open nimbus architecture. [4]  
b) Explain role of networking in cloud computing. [6]

OR

- Q2)** a) Explain service models of cloud computing in detail. [6]  
b) Write a short note on Vmware architecture. [4]

- Q3)** a) Write a short note on: [6]  
i) OS level virtualization.  
ii) Application level virtualization.  
b) Differentiate between SAN and NAS. [4]

OR

- Q4)** a) Elaborate HDFS architecture in detail. [6]  
b) Write a short note on HBase. [4]

**P.T.O.**

- Q5)** a) Explain virtual machine life cycle in detail. [6]  
b) Explain virtual machine provisioning process in detail. [6]  
c) Elaborate benefits of converged infrastructure. [4]

OR

- Q6)** a) Explain anatomy of cloud infrastructure. [8]  
b) Explain virtual machine migration techniques in detail. [8]

- Q7)** a) Differentiate between “Classical” HPC and HPC in cloud environments. [6]  
b) Compare performance of HPC system and HPC on clouds. [6]  
c) Explain key components of SLA. [6]

OR

- Q8)** a) Elaborate cloud service life cycle phases in detail. [6]  
b) Explain the phases of SLA management of application hosted on cloud platform. [6]  
c) Write a short note on SOAP versus REST. [6]

- Q9)** a) Explain virtualization software security in detail. [8]  
b) Explain threads in cloud computing. [8]

OR

- Q10)** a) Explain IaaS Host security in detail. [8]  
b) Explain identity life cycle management phases in detail. [8]

