

Total No. of Questions : 10]

**P2063**

SEAT No. :

[Total No. of Pages : 2

**[5059] - 668**

**B.E. (Information Technology)**

**CLOUD COMPUTING**

**(2012 Pattern) (Semester - I) (Elective - I)**

*Time : 2½ 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) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Use of Calculator is allowed.*
- 5) *Assume Suitable data if necessary.*

**Q1)** a) Explain in brief the services offered by cloud computing? [6]

b) Enlist the essential characteristics of cloud computing. [2]

OR

**Q2)** a) Explain in brief advantages and limitations of cloud computing. [6]

b) Compare Public cloud and Private cloud. [2]

**Q3)** a) Explain the virtualization techniques in cloud computing. [6]

b) Enlist features of federation types. Explain any one in brief. [6]

OR

**Q4)** a) Discuss in brief following basic principles of cloud computing [6]

i) Federation

ii) Independence

iii) elasticity

b) Compare KVM, Xen and HyperV. [6]

**P.T.O.**

- Q5)** a) Describe in brief 'Operating System Security'. [8]  
b) Enlist & describe security risks posed by shared images. [8]

OR

- Q6)** a) Discuss the top security concerns for cloud users. [8]  
b) Discuss two ways of determining trust. [8]

- Q7)** a) Explain Google App Engine with diagram. [8]  
b) Write short note on 'Open Nebula'. [8]

OR

- Q8)** a) Explain the storage services offered by Amazon EC2 cloud. [8]  
b) State and explain any two cloud computing applications. [8]

- Q9)** a) Describe Context Aware operational life cycle. [10]  
b) Discuss any four common myths about ubiquitous computing. [8]

OR

- Q10)** a) Describe methods to acquire user Inputs related to human centered design. [8]  
b) Explain the following service architectural models : [10]  
i) Multi tier client service model  
ii) Service oriented computing model

