

Total No. of Questions : 10]

SEAT No. :

P3132

[5154]-698

[Total No. of Pages : 2

B.E.(I.T.)

CLOUD COMPUTING

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

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 side indicate full marks.
- 4) Use of Calculator is allowed.
- 5) Assume Suitable data if necessary.

Q1) a) Describe in brief the services offered by cloud computing. **[6]**

- b) Explain in brief following terms with reference to cloud computing: **[2]**
- i) On demand self provisioning
 - ii) Elasticity
 - iii) Cost reduction
 - iv) Application program interfaces

OR

Q2) a) Which type of Cloud service is provided by 'gmail'? justify. **[6]**

b) Define cloud computing as per NIST. **[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) Discuss the top security concerns for cloud users. [8]
b) Enlist & describe security risks posed by shared images. [8]

OR

- Q6)** a) Describe in brief 'Operating System Security'. [8]
b) Enlist and explain different forms of Trust. [4]
c) Discuss different aspects related to contract between the user and the Cloud Service Provider to minimize security risks. [4]

- Q7)** a) Explain Google App Engine with the help of diagram. [8]
b) State and explain any two cloud computing applications. [8]

OR

- Q8)** a) Explain the storage services offered by Amazon EC2 cloud. [8]
b) Write short note on 'Open Nebula'. [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.

