

Total No. of Questions : 10]

SEAT No. :

**P3991**

**[5561]-696**

[Total No. of Pages : 2

**B.E. (Computer Engg.)  
CLOUD COMPUTING**

**(2015 Pattern) (Semester - II) (410253 (C)) (Elective - IV)**

*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) Draw neat diagram wherever necessary.
- 3) Assume suitable data, if necessary.
- 4) Figures to the right indicate full marks.

**Q1) a)** Explain in detail the benefits and limitations that are offered by the cloud to organizations when they hire cloud services. Also, explain about the security concerns for the organisations while using cloud services. [5]

b) Write a note on cloud file systems with architecture. [5]

OR

**Q2) a)** Write a note on multitenant nature of SaaS solutions. [5]

b) Explain open cloud consortium. [5]

**Q3) a)** Explain the following threats related to cloud computing. [5]

i) Disk failure

ii) Disgruntled Employees

iii) Network failure

b) Explain the solution stack: LAMP. Also, explain how LAMP is considered as more powerful alternative to the more popular LAMP stack. [5]

OR

**Q4) a)** Explain the following. [5]

i) CPU virtualization

ii) Memory virtualization

b) How to improve performance through load balancing? Explain how load balancing takes help of a server to route traffic to other servers which share the workload. [5]

*P.T.O.*

- Q5) a)** Explain the steps for configuring a server for EC2. [9]
- b) What are AWS load balancing services? Explain the Elastic load Balancer and its types with its advantages. [8]

OR

- Q6) a)** Explain the steps to create an Amazon S3 Bucket and managing associated objects. [8]
- b) What is an Amazon EBS snapshot? Give steps to create EBS snapshot. [9]

- Q7) a)** Describe cloudlets for mobile cloud computing with neat diagram and differentiate between cloudlets and clouds. [8]
- b) Write a note on Innovative applications of IoT. [9]

OR

- Q8) a)** Explain performance metrics for HPC/HTC systems. [9]
- b) Explain the cyber Physical system [CPS]. Explain CPS components. [8]

- Q9) a)** Explain the client server architecture of Docker? What are Network ports and unix sockets? [8]
- b) What is Energy aware cloud computing? Explain in detail. [8]

OR

- Q10) a)** What is the impact of cloud on operating systems in future? [8]
- b) Explain Docker with respect to process simplification. Broad support and Adoption, Architecture. [8]

