

Total No. of Questions : 8]

SEAT No. :

PB-3789

[Total No. of Pages : 2

[6262]-48

**T.E. (Computer / Artificial Intelligence and Data Science
Engineering)**

CLOUD COMPUTING

(2019 Pattern) (Semester - II) (310254C) (Elective-II)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) a) What is virtualization? What is Type 1 Hypervisor and Type 2 Hypervisor? **[6]**

b) Explain Virtual clustering in detail? **[6]**

c) Explain Virtualization in grid computing? **[6]**

OR

Q2) a) Explain Virtualization Application and Pitfalls of Virtualization? **[6]**

b) Explain Network and Storage Virtualization? **[6]**

c) Explain virtual machine migration technique in detail? **[6]**

Q3) a) What is AWS? What are the services provided by AWS? **[6]**

b) Explain amazon S3 and Amazon EC2? **[6]**

c) Explain SQL Azure in detail? **[5]**

OR

Q4) a) Explain Google App Engine with its installation steps? **[6]**

b) Draw and explain Architecture of Amazon Dynamo? **[6]**

c) Differentiate between Dynamo DB and Amazon S3? **[5]**

P.T.O.

- Q5)** a) What is role of Confidentiality, Integrity and Availability in Cloud Computing? [6]
b) Explain types of Risks in Cloud Computing? [6]
c) Explain the secure cloud software testing? [6]

OR

- Q6)** a) Explain the cloud security services in details? [6]
b) Write a short note on content level security? [6]
c) Compare server side and client-side encryption? [6]

- Q7)** a) Explain the mobile cloud computing? [6]
b) Explain docker with its Architecture? [6]
c) Explain the application of IOT and cloud in your home? [5]

OR

- Q8)** a) What is Energy aware cloud computing? Explain in details? [6]
b) Explain container & Kubernetes in detail? [6]
c) Explain Distributed cloud computing? [5]

