

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]

