

Total No. of Questions : 8]

SEAT No. :

PD4253

[Total No. of Pages : 2

[6403]-48

T.E. (Artificial Intelligence and Data Science) (Computer Engg.)

CLOUD COMPUTING

(2019 Pattern) (Semester - VI) (310254 C) (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.7 or 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) Define virtualization. Discuss the types of virtualizations. [6]
- b) Draw & Explain VMware architecture in detail. [6]
- c) Distinguish between virtualization in Grid and virtualization in Cloud. [6]

OR

- Q2)** a) Explain the role of virtualization in cloud computing. [6]
- b) Discuss how distributed computing technologies underpin the architecture of cloud services, focusing on the role of load balancing and fault tolerance? [6]
- c) Draw & Explain the anatomy of cloud infrastructure. [6]
- Q3)** a) List and explain the services offered by AWS. [6]
- b) Explain the AWS Elastic load Balancer and its types with its advantages. [6]
- c) Draw and Explain Architecture of Amazon Dynamo. [5]

OR

P.T.O.

- Q4)** a) Explain steps to configure server for EC2. [6]  
b) Describe the storage Services offered by Amazon. [6]  
c) Write a note on Services offered by Microsoft. [5]

- Q5)** a) Identify and explain Security issues in Cloud Computing. [6]  
b) Discuss Secure Cloud Software Requirements in detail. [6]  
c) List and explain Security Authorization Challenges in the Cloud. [6]

OR

- Q6)** a) Explain the Secure Cloud Software Testing. [6]  
b) Discuss Challenges, Advantages and Disadvantages of Data Security in Cloud. [6]  
c) Explain Cloud Digital persona and Data security. [6]

- Q7)** a) Difference between Distributed Cloud Computing Vs Edge Computing. [6]  
b) Describe DevOps Architecture in Cloud Computing. [6]  
c) Explain the Comet Cloud Architecture with diagram. [5]

OR

- Q8)** a) Explain Containers and Dockers in details. [6]  
b) Describe Jungle Computing in detail. [6]  
c) Draw & explain working of Kubernet architecture. [5]

