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]**