H   Roll No. ....

TCS–603

B. TECH. (CSE) (SIXTH SEMESTER)
MID SEMESTER EXAMINATION, 2021

CLOUD COMPUTING

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each question carries 10 marks.

1. (a) Explain how Cloud Computing is different from the following :   10 Marks (CO1)

    (i) Distributed Computing

    (ii) Client Server Architecture

    (iii) Peer to Peer Computing

    (b) (i) "Cloud Computing supports Multi-Tenant Model for utilizing its resources." Justify the statement with the help of an example.

                 10 Marks (CO1)

      (ii) Explain various Cloud deployment model in detail with their advantages.

2. (a) Explain the concept of Virtualization in Cloud Computing ? Describe and explain different levels where virtualization can be implemented in Cloud Computing.

10 Marks (CO2)

OR

(b) (i) Discuss the concept of Virtual Private Cloud along with its advantages.

(ii) Discuss the challenges and steps for implementing Private Cloud.

10 Marks (CO2)

3. (a) (i) "For any organization to survive and enhance its working it is necessary for them to use Cloud Computing". Justify and Comment. 5 Marks (CO1)

(ii) "Resources In Cloud Computing are made available to various clients in virtualized form". Explain this with respect to Cloud Computing.

5 Marks (CO1)

OR

(b) Explain the generalized architecture of Cloud Computing including all the components with the help of a neat and clean diagram.

10 Marks (CO2)

4. (a) Name and explain various kinds of services in detail provided by Cloud computing giving examples of each.

10 Marks (CO1)

OR

(b) Define Private Cloud with the various methods in which private cloud can implemented. Also explain the various features of Private Cloud. 10 Marks (CO2)

5. (a) (i) With respect to Private Cloud, explain Cloud Management Layer and 'Physical Layer'. 5 Marks (CO1)

(ii) Discuss the evolution of Cloud Computing technology in detail.

5 Marks (CO1)

OR

(b) (i) With respect to Cloud Computing, discuss Security as an advantage, disadvantage and biggest challenge to Cloud Computing. 5 Marks (CO2)

(ii) Explain various VM migration techniques with respect to virtualization. 5 Marks (CO2)