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Roll No. 2194026.....

**TCS-451**

**B. TECH. (COMPUTER SCIENCE  
AND ENGINEERING)  
(FOURTH SEMESTER)**

**MID SEMESTER**

**EXAMINATION, April, 2023**

**VIRTUALIZATION AND CLOUD  
COMPUTING**

**Time : 1½ Hours**

**Maximum Marks : 50**

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

(ii) Each sub-question carries 10 marks.

1. (a) Explain Cloud Computing with advantages and different types of Cloud environment with suitable figure. (CO1)

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OR

- (b) Explain in detail Saas, Paas and Iaas with advantages. (CO1)
- 2. (a) As per the standard cloud services, discuss according to less control and high control configuration services. (CO1)

OR

- (b) Discuss about the Cloud Service Management in detail. (CO1)
- 3. (a) As per the NIST, explain essential cloud computing characteristics. (CO2)

OR

- (b) Explain the cloud computing vision and cloud computing reference model in detail. (CO2)
- 4. (a) Differentiate between client-server computing, distributed computing and cloud computing in detail. (CO2)

OR

- (b) Explain Virtualization in cloud computing and differentiate between Web 1.0, Web 2.0 and Web 3.0. (CO2)

(3)

5. (a) Explain software development in cloud computing with example. (CO2)

OR

- (b) Differentiate top cloud computing platform and technologies with example. (CO2)