

# Indian Institute of Information Technology, Sri City, Chittoor

Mid Semester Examination – February 2021

Cloud Computing

SET - 3

Maximum Marks: 20

Time Duration: 1 hr.

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## Instructions

1. This is a **closed book online proctored** exam.
    - a. You should not refer to books, notes or online resources.
    - b. You should not discuss questions or answers with anyone (including outsiders)
    - c. You should have your camera and microphone **ON** at all times and no headphones
  2. Write the solutions clearly and legibly in A4 sheets, using pen (NOT pencil) and at the end of the exam you should submit the scanned copy of your solutions as explained by the faculty
  3. **The name of the scanned copy should be Roll No + ‘\_’ + Set No.pdf (e.g. S20200010XYZ\_Set3.pdf).**
  4. **Write your name, roll no. and set number on each page of the answer sheets.**
  5. **Answer questions in brief and to the point only.**
  6. Follow all other instructions given by the faculty during the exam
  7. The exam is for 20 marks, and will be of one hour from 3:00 PM to 4:00 PM. After 4 PM, you are supposed to scan the answer sheet as a single PDF file and upload it before 4:15 PM without fail
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## Descriptive Questions (5 marks each)

1. (a) How cloud computing provides scalability and fault tolerance. Explain your answer with suitable example of each.  
(b) Compare and contrast between horizontal scaling and vertical scaling.
2. Describe the essential characteristics of cloud computing.
3. What is the difference between dom0 and domU in the Xen architecture. Explain how dom0 and domU work in tandem to handle I/O requests
4. What are the different levels of virtualization? Give examples.