

**Indian Institute of Information Technology Sri City, Chittoor**

Mid Semester Examination – Sept 2021

Cloud Computing

SET - 2

Maximum Marks: 30

Time Duration: 1:30 Hours

Date: 24<sup>th</sup> Sep 2021

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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\_Set2.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 30 marks, and you will be given 1:30 hours from 8:30 AM to 10:00 AM for writing. After 10:00 AM, you are supposed to scan the answer sheet as a single PDF file and upload it before 10:15 AM without fail
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**Descriptive Questions (6 marks each)**

1. What do you understand by Service Oriented Architecture (SOA)? Explain how does it support cloud computing.
2. Discuss the various cloud deployment models. Also explain the scenarios when one should opt for a hybrid cloud deployment model.
3. (a) Describe at least two scenarios when one should prefer Edge Computing over Fog Computing.  
(b) Compare and contrast between the horizontal scaling and vertical scaling.
4. Demonstrate the hypervisor reference architecture and explain each of its modules.
5. Explain how execution of privileged instructions is handled in Full as well as in Para virtualization techniques.