

Indian Institute of Information Technology Sri City, Chittoor

Mid Semester Examination – Sept 2021

Cloud Computing

SET - 1

Maximum Marks: 30

Time Duration: 1:30 Hours

Date: 24th Sep 2021

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_Set1.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. How does cloud computing help to reduce the time to market for applications and to cut down capital expenses?
2. How does cloud computing offer scalability and fault tolerance. Explain your answer by giving a suitable example for each.
3. (a) Describe the Cloud Computing Reference Architecture and discuss its benefits.
(b) Explain how cloud security and privacy is integrated into the design of application.
4. Differentiate between a Type 1 and Type 2 hypervisors with suitable examples. Also provide the detailed representation for each of these hypervisors.
5. What happens to cloud computing when you lose network access? Which computing technology would be helpful in this situation.