



College of Computing and information technology	Exam: 7 <sup>th</sup> week
Date: 12/8/2020	Subject : Cloud Computing (CS428)
Exam Submission: 14/8/2020 6 PM	Lecturer Name: Mostafa Abdallah Ammar

**Answer the following questions. (20 marks)**

Answers should be submitted using hand written format including all drawings and explanations. Please elaborate your answer with drawings and clarify as much as possible.

1. What are the cloud computing features and benefits?
2. Compare between public cloud, private cloud and hybrid cloud
3. Define the cloud reference model? why do we need such a model? (please elaborate with drawing)
4. In brief explain the role of each layer in cloud model.
5. Explain what is raid? how raid is used to enhance hard disks read and write operations? compare raid 0,1,10,5,6 with drawing?
6. What is the hypervisor ? What are the different types of hypervisors? State example software for each type.
7. Compare between NAS and SAN with drawing.
8. Draw network diagram of SAN storage system connectivity through network showing zoning and explain the different addressing types (WWNN, WWPN), show the different port types and explain function of each port role (P, N, F) ports.

**End of questions.**