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| **College of Computing and information technology** | | **Exam: 7th week** | |
| **Date: 14/4/2021** | | **Subject : Cloud Computing (CS428)** | |
| **Exam Submission: 14/4/2021** | | **Lecturer Name: Dr. Mostafa 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. Draw network diagram of Fiber channel 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. (5 marks)
2. 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? Which raid model provides dual parity bits ? what is the benefit of having dual parity bits? (4 marks)
3. Define the cloud reference model? why do we need such a model? (please elaborate with drawing)? Why is the security layer is considered a cross-layer function? (2 marks)
4. Compare between public cloud, private cloud and hybrid cloud (2 marks)
5. What is the hypervisor ? What are the different types of hypervisors? State example software for each type. (2 marks)
6. Please state the following: )5 marks)
7. a compute service used create virtual machines on amazon AWS?
8. Storage service can be used to host static web sites on amazon AWS?
9. storage service on AWS used to add hard disk to ec2 instances?
10. Storage service on AWS used to add shared file storage used by different ec2 instances?
11. Which type of storage is best suited for backup in datacenter environments?

**End of questions.**