

National Forensic Sciences University
School of Cyber Security and Digital Forensics

Course Name: M.Sc. Digital Forensics & Information Security
Semester - III Exam: MSE (OCT-NOV - 2023)

Time: 03.30 PM to 5.00 PM

Date: 02-11-2023

Subject Code: CTMSDFIS III P4 EL3
Subject Name: Cloud Security & Forensics

[45 Marks]

Q1. Answer the following questions (Attempt any Five)

- 1) When and why do you want to use Full-Virtualization over Para-Virtualization and vice versa? Which are the techniques to implement Full Virtualization?
- 2) Explain the purpose of a Region, Availability Zone, and Edge Location with respect to Amazon Web Services (AWS). Discuss different ways to implement High Availability in AWS.
- 3) Discuss different memory management techniques to optimize virtual memory of Hypervisor.
- 4) List out basic requirements of Datacentre Interconnection Network. How FAT tree results as a solution to achieve one of the requirements?
- 5) Discuss the Layered Architecture of Cloud Computing with help of an Example ✓
- 6) Compare the working of IaaS and SaaS based on following parameters: Services, Provider, Users, Limitation, Security, billing ✓
- 7) Which are the different sources of Logs in Cloud Computing Environment?

[5 Marks]

Q2. Answer the following questions

Encrypt the plaintext 'HIDE THE DEAD BODY AT 7' using PLAY FAIR CIPHER and Key: BRITISH11

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