



United International University (UIU)
Dept. of Computer Science & Engineering (CSE)
Mid Term Exam Total Marks: 20 Summer 2022
Course Code: CSE 4587 Course Title: Cloud Computing
Time: 1 hour 45 minutes.

[Any examinee found adopting unfair means will be expelled from the trimester/program as per UIU disciplinary rules.]

Answer all questions.

Figures in the right-hand margin indicate full marks.

- Q1** ☒ (a) How do you describe different service models of cloud computing? [1 x 10] = 10 marks
☒ (b) How do you describe different deployment models of cloud computing?
☒ (c) How do you differentiate between horizontal and vertical scaling?
☒ (d) How do you differentiate Single and Multi-Tenancy?
☒ (e) How do you differentiate Type 1 and Type 2 Hypervisor?
(f) In AWS, how do you differentiate between EC2 and EBS?
☒ (g) In AWS, how do you differentiate between EL and REC?
☒ (h) How do you define bucket? In the following URL, which portion is the bucket:
<https://s3-eu-east-1.amazonaws.com/xyz>
☒ (i) How do you define Route 53?
☒ (j) How do you define S3 in AWS?
- Q2** (a) For NIST reference model, draw NIST model and describe the fundamental components. [1 x 4] = 4 marks

(b) How do you differentiate between SOA, Grid Computing, and Virtualization technologies?

(c) Suppose you built your own datacenter where you have deployed your servers. However, after sometimes you have decided to handover them under a cloud service provider's cloud environment. What are the reasons to decide so? Justify your answer.

(d) Suppose sometimes later, you have again decided to bring your servers and/or applications back to you own datacenter. What are the reasons to decide so? Justify your answer.