

Fomenky's

UNIVERSITY OF BUEA
COLLEGE OF TECHNOLOGY
FIRST SEMESTER EXAMINATIONS 2019/2020

MONTH: February

YEAR: 2020

DATE: 21/02/2020

TIME ALLOWED: 2hrs

INSTRUCTIONS: Answer ALL Questions

COURSE INSTRUCTOR: Dr. Godwill Vegah

COURSE CODE & NUMBER: CEC315

COURSE TITLE: Introduction to Cloud Computing

CREDIT VALUE: 4

- 1) Write short notes on the following concepts used in Cloud Computing
 - a. Multitenancy (2mrks)
 - b. Resource Pooling (2mrks)
 - c. On-demand Self Service (2mrks)
 - d. Rapid Elasticity (2mrks)
 - e. Measured Services (2mrks)
- 2) What are the advantages of Cloud Computing?
 - a. To a business (5mrks)
 - b. To an individual (5mrks)
- 3) What are the major challenges in cloud computing? (10mrks)
- 4) Write short notes on the following:
 - i. Virtualization (3mrks)
 - ii. Virtual Machines (2mrk)
 - iii. Hypervisors(3mrks)
 - iv. Host Machine and Guest Machine(2mrk)
- 5) Answer the following questions on Hypervisors
 - a. How do Type 1 hypervisors differ from Type 2 hypervisors? (1mrk)
 - b. What are the other names for Type 1 and 2 hypervisors? (1mrk)
 - c. State 2 advantages and 2disadvantages of Type 2 hypervisors(4mrks)
 - d. In your own words, briefly explain when it will be suitable to use a Type 1Hypervisorand a Type 2 Hypervisor likewise. (4mrks)
- 6) University of Buea intends to use cloud computing. They have contacted you as a cloud service provider who offers Software as a Service (SAAS), Platform as a Service (PAAS), and Infrastructure as a Service (IAAS). Explain the following terms and give a relevant example in each case to convince the University on the best deployment method(s) they could opt for.
 - a. SAAS (3mrks)
 - b. PAAS (3mrks)
 - c. IAAS (3mrks)
- 7) Apart from Cloud Computing, other Computing types exist. List 3 of them and write short notes on them. (6mrks)
- 8) Assuming you are a Cloud Service Provider. The University of Buea and the University of Bamenda wish to collaborate but they are having difficulties deciding on which cloud computing architectures to adopt. Help them determine which one will be the best to suit their needs and why (5mrks)