



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR**

**SPECIAL/SUPPLEMENTARY EXAMINATIONS
YEAR FOUR SEMESTER TWO EXAMINATIONS**

**FOR THE DEGREE OF
BACHELOR OF COMPUTER SCIENCE**

COURSE CODE : CSC 466E

COURSE TITLE : CLOUD COMPUTING

DATE: 01/02/2021

TIME: 2.00 P.M – 4.00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE [COMPULSORY] [30 MARKS]

- a) Define the following terms as used in cloud computing [8 marks]
- i. Distributed databases
 - ii. Utility computing
 - iii. Service oriented computing
 - iv. Web 2.0
- b) Describe five desired features of a cloud [8 marks]
- c) List any three major vendors of public cloud and for each vendor give one product or service that they offer. [6 marks]
- d) Explain any two fundamental advantages that cloud technology bring to scientific applications? [4 marks]
- e) Explain what the acronym XaaS stand for [2 marks]
- f) Explain what the term vendor lock-in means in cloud computing environment. [2 marks]

QUESTION TWO [20 MARKS]

- a) Define PaaS as used in cloud computing [2 marks]
- b) Outline the main characteristics of a PaaS. [8 marks]
- c) Define SaaS as used in cloud computing? [2 marks]
- d) Outline any four basic benefits of an SaaS-based solution for cloud computing? [8 marks]

QUESTION THREE [20 MARKS]

- a) Describe any **three** advantages and **two** disadvantages of a company migrating its entire IT infrastructure to the cloud. [10 marks]
- b) i) Explain what AWS is? [2 marks]
ii) Describe three types of services does it offered by AWS? [6 marks]
- c) State the most important advantage that cloud technologies offer to social networking applications [2 marks]

QUESTION FOUR [20 MARKS]

- a) Describe four cloud deployment models [12 marks]
- b) Describe three advantages of using private cloud [6 marks]
- c) Explain the role of the internet in cloud computing [2 marks]

QUESTION FIVE [20 MARKS]

- a) Describe the benefits of implementing a community cloud.
- b) Describe five cloud computing enabling technologies.

[10 marks]

[10 marks]