

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2014/2015**

**YEAR II SEMESTER II EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY**

**BIT 2225: CLOUD COMPUTING**

**DATE:AUGUST 2015 TIME: 2 HOURS:**

**INSTRUCTIONS: Answer question one (compulsory) and any other two questions.**

**QUESTION ONE (30 MARKS)**

a. Explain the following terms.

i. Cloud.

ii. Cloud computing

iii. Distributed systems.

iv. Network

v. World wide web.

vi Intranet. (12 marks)

b. Explain five types of transparency (10 marks)

c. Name and explain four cloud computing deployment models. (8 marks)

**QUESTION TWO**

a. Explain the acronym Eucalyptus (2 marks)

b. Name and explain six services offered by the Amaxon web services. (12 marks)

c. Name and explain seven benefits of adapting a EUCALYPTUS cloud. (14 marks)

d. Explain the meaning of SOAP. (2 marks)

**QUESTION THREE**

a. Name and explain the three main cloud computing service models. (2 marks)

b. Explain five advantages of cloud computing (5marks)

c. Compare and contrast between a centralized system and a distributed system.

(6 marks)

**QUESTION FOUR**

a. Explain the following computing concepts.

i. Grid computing

ii. Automatic computing

iii. Virtualization

iv. Green computing

v. Ubuquitous computing. (20 marks)

**QUESTION FIVE**

a. Explain the term service level agreement. (2 marks)

b. List and explain the contents of a service level agreement (10 marks)

c. Distinguish between proprietary and custom software. (4 marks)

d. Outline four advantages of outsourcing computing services. (6 marks)