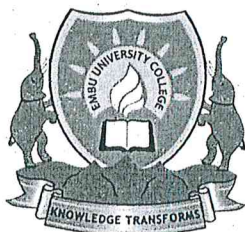


69



**EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)**

SECOND SEMESTER EXAMINATIONS 2013/2014

**SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN AGRIBUSINESS MANAGEMENT**

AEB 201: INFORMATION AND COMMUNICATION TECHNOLOGY

DATE: MARCH 31, 2014

TIME: 11.00AM - 1.00PM

INSTRUCTIONS:

ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

QUESTION ONE

- a) Define the term information system (2 marks)
- b) What do you understand by term ICT? Illustrate this with two examples (3 marks)
- c) Discuss briefly the history of computers giving relevant timelines (5 marks)
- d) Differentiate between the terms ICT policy and ICT guidelines (2 marks)
- e) Computer technology improves on average every two years. Suppose you wanted to upgrade your computer to improve on its performance. Highlight two ways in which this can be achieved. (3 marks)
- f) The analysis phase of the system development life cycle is the most important of all the other phases". Discuss the above statement vis a vis the development of a

computer based information system.

(4 marks)

- g) Write an HTML code that outputs the message “Hello all, this page is under construction!” (4 marks)
- h) Outline three major topologies of computer networking (3 marks)
- i) Cyber ethics has brought out new and unique moral issues. Discuss four factors that make cyber ethics unique (4 marks)

QUESTION TWO

- a) Many IS experts today accept that in designing systems “the system should fit the man as opposed to the man adapting to the system”. Discuss the above statement. (4 marks)
- b) Explain why prototyping has become a popular way of developing new computer based systems (5 marks)
- c) What are the objectives of system verification and validation? Where exactly does verification and validation occur in system development life cycle? (5 marks)
- d) Discuss three areas where ICTs play a role in Agribusiness operations (6 marks)

QUESTION THREE

- a) Discuss briefly the three major programming paradigms (6 marks)
- b) List and explain the seven stages of the system development life cycle (14 marks)

QUESTION FOUR

- a) The small and medium enterprises in Kenya predominantly use ICTs as a cost cutting tool. They are yet to embrace the use of the ICTs in managing the operations of their businesses. Explain four reasons on why this might be the case (8 marks)
- b) Briefly discuss any four types of information systems (8 marks)
- c) Briefly explain how ICTs assist in data management in an organisation (4 marks)

QUESTION FIVE

- a) Distinguish between a data processing system and an MIS (4 marks)
- b) Discuss three advantages associated with the internet in the field of your study (6 marks)

c) Explain five ways in which information systems assist managers in organizations

(10 marks)

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