CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

THIRD YEAR SEMESTER ONE EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

COSC 472: STRATEGIC INFORMATION SYSTEMS

STREAMS: BSC (AGRIBUSINESS MANAGEMENT)   TIME: 2 HOURS

DAY/DATE: FRIDAY 07/12/2018   8.30 A.M. – 10.30 A.M.

CANDIDATE INSTRUCTIONS

1. Answer **all questions** in section A and any other **two questions** from section B.
2. No Reference Material is allowed in the exam Room.
3. Write on Both sides of the answer sheet.
4. All Mobile phones should be switched off in the exam room.
5. Write legibly.

SECTION A (COMPULSORY)

QUESTION 1 (COMPULSORY) [30 MARKS]

a) A certain banking organization wanted to move their services to be accessed through a mobile platform (m-banking).
   i)   Explain the term m-banking   (2marks)
   ii) Outline THREE benefits of m-banking over the normal paper banking
                                                                          (3marks)
   iii) Explain THREE challenges that the bank is likely to face using this platform
                                                                          (3marks)

b) Using an example in each case, explain TWO differences between data and information.   (4marks)

c) A certain business venture wanted to computerise their management information system, but the management was not exactly aware of some of the characteristic of this system. Explain FIVEcharacteristics of their intendedsystem that you are likely to let them know.   (5marks)

d) A certain organization, wanted to implement an effective contingency planning for their management information systems in case of emergencies. Explain three contingency planning components that could be put into place.   (6marks)

e) Name SIX antiviruses that are available in the Kenyan market that could be used in safeguarding MIS.   (3marks)

f) Explain TWO disadvantages each of the following methods of data collection
   i) Joint application development   (2 marks)
   ii) Prototyping   (2 marks)

SECTION B (Answer **two question** from this section)

QUESTION 2 [20 MARKS]

a) Executive information systems are very important in management policies in blue chip companies.
   i) Describe what an executive information system is   (2marks)
   ii) Using a relevant example in each case, Explain FOUR features of Executive information systems   (8marks)

b) System design stage is such an important stage during the development of a system.
   i) Explain what takes place during system design stage   (2marks)
   ii) Outline five issues that are likely to be addressed during this stage   (5marks)

c) System coding involves writing the program codes. Name SIX programming languages that are likely to be used to code our Information systems   (3marks)

QUESTION 3 [20 MARKS]

a) Discuss FIVE factors that you are likely to consider before acquiring new software for a large Human resource organization in Kenya.   (10marks)

b) Using a relevant example from a business, describe THREE types of files used in MIS to store business data   (6marks)

c) Outline FOUR information security policies.   (4marks)

QUESTION 4 [20 MARKS]

a) A certain bank designed their cheque clearing system using real-time system. They later changed it to batch processing systems. Discuss TWO reasons for the cause of this change, clearly indicating the major difference between batch and real-time data processing mode.   (6marks)

b) Explain THREE benefits of CD over flash disk storage device. (3marks)

c) Ken who is in charge of managing information systems suspected that there could be an incident of security breach on their networked systems. Highlight SIX indicators that he is likely to have noted. (6marks)

d) Felix bought a 4GB flash disk to store his documents in. He stored 15 files in the flash disk. The files were such that 7 of them were 110MB each, 5 of them were 100,000KB each, and the remaining 3 were 900MB each. Calculate the empty storage space in the flash disk in KB. (5marks)

QUESTION 5 [20 MARKS]

a) Businesses are integrating their systems regionally to enhance their business prowess. Discuss FIVE reasons why businesses need to integrate their systems. (10marks)

b) Highlight FIVE measures that could be put into place to mitigate internet usage abuse in organizations. (5marks)

c) Discuss five reasons why an organisation would opt to buy their information system instead of in-house development. (5marks)