UNIVERSITY OF EMBU

DATE: APRIL 11, 2019   TIME: 2:00 PM – 4:00 PM

INSTRUCTIONS:

Answer Question ONE and ANY other two Questions

QUESTION ONE (30 MARKS)

a) A data processing system is a combination of machines and people that for a set of inputs produces a defined set of outputs. Consequently these systems entail various combinations of processes. Enumerate these processes.   (5 marks)

b) Corporate scandals have become so rampant in recent times and as result organizations have been forced to implement strong internal controls into their transaction based systems. The Kenyan government for instance has had to put up with the runaway corruption scandals in government ministries. Enumerate the advantages of having accounting information systems in place to the ministry of finance in an attempt to help them arrest the matter.   (5 marks)

c) Giving examples, elaborate the levels of management and illustrate the various information needs at each level   (5 marks)

d) Describe the various types of information systems available to organizations today.

(5 marks)

e) With a help of a diagram showing hotel reservation system, discuss its key components

(5 marks)

f) E-business has provided the means for integrating systems across the organization as a result; vendors have created several technologies that facilitate integration. Demonstrate your understanding of Enterprise Resource Planning Systems, better known as ERP systems, and highlight their benefits.

(5 marks)

QUESTION TWO (20 MARKS)

a) Management information systems and computer information systems differ simply on the source of information. MIS is mainly involved with sources of information both internal and external to the organization, while CIS relates to computers and how they are currently used in the organization. Explain the benefits that come with the continuous usage of management information systems.

(10 marks)

b) Decision making remains one of the more challenging roles of a manager. Information systems have helped managers communicate and distribute information; however they have provided only limited assistance for management decision making. Explain the types of decisions that managers are faced with in their management role

(10 marks)

QUESTION THREE (20 MARKS)

a) Conversion of data into information is a process that involves logically related tasks that are performed to achieve a defined outcome. Valuable information therefore entails various important features. What are these features?

(10 marks)

b) Management has a duty to mitigate risks to information security various measures by instituting certain measures. Discuss in details the different types of controls that are available to managers of information security.

(10 marks)

QUESTION FOUR (20 MARKS)

a) With the advancement in technology and continued use of information systems, ethical issues are bound to arise. A manager of an IT firm is in an ethical dilemma. Elaborate to him the best approach to analyze the situation

(10 marks)

b) It is important to organize data in such a manner as to reflect business operations and practices. Explain the main database models and help the management of Bidco Company understand the database model that offers more flexibility. (10 marks)

QUESTION FIVE (20 MARKS)

c) The manager of Equity bank limited has approached you to help him determine the best approach for his organization to roll over a new system. A number of analysts have given him various options that they consider effective in software development. Advise him why prototyping is considered the best approach comparing this to the other methods

(10 marks)

d) Data loss has become so rampant in our organizations today. Recently Tusky's supermarkets lost crucial data related to their daily operations. Attempts to recover this data have proved futile. Help the CEO of this firm understand the various ways through which future occurrences can be safeguarded. (10 marks)

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