CERTIFIED PUBLIC ACCOUNTANT

FOUNDATION LEVEL 2 EXAMINATIONS

F2.3: INFORMATION SYSTEMS

WEDNESDAY: 04 DECEMBER 2019

INSTRUCTIONS:

1. **Time Allowed: 3 hours 15 minutes** (15 minutes reading and 3 hours writing).
2. This examination has **seven** questions and only **five** questions are to be attempted.
3. Marks allocated to each question are shown at the end of the question.
4. Show all your workings

QUESTION ONE

The board meeting of IZUBA Ltd, specialized in football apparels, is held twice a semester. This semester it will discuss on how to invest in new business line and start producing football shoes also for its customers located in Northern Province.

REQUIRED:

a) What type of Information System and its characteristics that will help the board members in this exercise?   **(5 marks)**

b) Discuss the components of the above mentioned System.   **(5 marks)**

c) As a computer literate, the manager has asked you to propose a knowledge management (KM) framework. Explain the KM value chain.   **(5 marks)**

d) Explain the knowledge network system.   **(5 marks)**

                                                                            (20 marks)

QUESTION TWO

On October 31st , 2018 President Kagame and Jack Ma, the founder and Executive Chairman of Alibaba Group, the world's largest online commerce company based in China, launched the Electronic World Trade Platform (eWTP) Africa, which is an Alibaba e-commerce platform to facilitate Rwandans to transact business with the rest of the world.

REQUIRED:

   i.   What is e-commerce   **(4 Marks)**
  ii.   What are the reasons for the success of e-commerce   **(8 Marks)**
 iii.   List the potential risks associated with e-commerce   **(8 Marks)**

                                                                        (Total 20 marks)

QUESTION THREE

As an IT expert, The Trends Ltd Company corporate service manager is seeking your advices on a new initiative of digitalizing/automating the human resource department. The manager is considering using internal/in-house IT experts to develop the HRM system/software.

He would like you to clarify the following for him before this endover:

REQUIRED:

a) Using a chart explain, prototyping approach   **(5 marks)**

b) Discuss two advantages and two disadvantages of prototyping approach   **(4 marks)**

c) Describe the end user development method   **(5 marks)**

d) Write short note on computer Aided software Engineering and object-oriented development

(6 marks)

(20 marks)

QUESTION FOUR

Rwanda Nziza Company has hired Network Pro. Ltd, to plan, procure and install LAN, WAN and PAN or all of them in their workplace.

REQUIRED:

a) Mention the differences and similarities among LANs, WANs, and PANs   **(5 Marks)**

b) What are the advantages of using intranets and extranets to Rwanda Nziza Company.

(5 Marks)

c) List the challenges that may be paused to Rwanda Nziza by Wi-Fi technology.   **(5 Marks)**

d) Discuss why information systems and networks that Rwanda Nziza wants to install may be vulnerable to security threats   **(5 Marks)**

(20 marks)

QUESTION FIVE

XENDAR Ltd, a specialized IT Services and Technical support company with thousands of customers, is considering migrating its infrastructure from traditional computing to the recent IT trends of Cloud-based solutions. However, the newly appointed CEO, is seeking more deeper clarification from you as an IT consultant before signing the new financial proposal to be implemented.

REQUIRED

a) Explain the following terms as used in the scenario above

   i. Cloud computing compared to autonomic computing   **(6 marks)**

   ii. SANs   **(2 marks)**

   iii. Grid computing   **(2 marks)**

b) Describe the blade server concept   **(4 marks)**

c) Clearly explain to the new CEO, the total cost of ownership of technology assets   **(6 Marks)**

(20 marks)

QUESTION SIX

Nowdays,Online Presence is increasingly becoming a competitive and positioning strategy for business companies. Given the following characteristics and strategies of below business companies; explain the business model each company is using in order to get revenues from its customers and online web visitors.

REQUIRED

a) Identify the business model used by the companies below:

   i. Igihe.com is selling mainly news online. **(3 marks)**

   ii. Ebay.com is an online place where items are sold to those who offer the high cost price

                                                     (3 marks)

   iii. Amazon.com sells items online and doesn't have a physical shop. **(3 marks)**

   iv. Scholarship.positions.com posts thousands of millions of available scholarships worldwide.

                                                     (3 marks)

   v. Food.jumia.rw sells meals from different restaurants across Kigali city. **(3 marks)**

b) Explain the concept behind "locations-based services", often available on mobile devices.

                                                     (3 marks)

c) Differentiate blogs from wikis **(2 marks)**

                                                     (20 marks)

QUESTION SEVEN

The Founder of BRIGHTER FUTURE ltd has praised a lot the merits of IT in modern society in terms of new managerial styles and office configurations. She has promised to invest more and more in technology as there are new more performing devices and gadgets at very affordable prices.

REQUIRED

a) As the Founder said, explain how IT has created flat organizations. **(4marks)**

b) Explain five moral dimensions to be considered in this era, which are information centric and dominated by huge investments in IT solutions. **(10 marks)**

c) Explain the ethical issues by the extensive use of technology and their impacts on daily life of technology users **(6 marks)**

                                                     (20 marks)