CERTIFIED ACCOUNTING TECHNICIAN

LEVEL 2 EXAMINATIONS

L2.2: INFORMATION SYSTEMS

THURSDAY: 12 JUNE 2014

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

a) A lot of information of different types is stored on the web server on the Internet. It means that billions of websites contain different information in the form of text and pictures. You can easily collect information on every topic of the world.

Required:

Explain the advantages and disadvantages of the internet. **(10 Marks)**

b) Identify and explain various data validation checks

   a) Sequence check. **(2.5 Marks)**

   b) Check digit. **(2.5 Marks)**

   c) Duplicate check. **(2.5 Marks)**

   d) Range check **(2.5 Marks)**

(Total 20 Marks)

QUESTION TWO

a) Office automation has revolutionized the office environment empowering the office worker to increase their productivity.

   i) Define office automation and show its impact on the business **(4 Marks)**

   ii) Define Desktop Publishing (DTP) and indicate the business applications of the systems? **(4 Marks)**

b) What are the major limitations of manual systems? **(4 Marks)**

c) Modern banking environments have greatly benefited from developments in Electronic Data Interchange (EDI) and Electronic Funds Transfer (EFTs). Explain (EDI) and (EFTs) and show their contribution to better business transactions. **(4 Marks)**

d) What do you understand by the term Document Image Processing (DIP) **(1 Mark)**

e) Identify the main applications of DIP and state three advantages of using DIP in information management. **(3 Marks)**

(Total 20 Marks)

QUESTION THREE

a) Rwandafin Ltd is a medium size commercial bank having branches in major towns in Rwanda. The bank provides over the counter services and is planning to introduce online banking services. The online banking services will enable the bank to centralize some information processing systems while decentralizing others. You are the project manager overseeing the implementation of the online banking services project.

(i.) What information systems services would you recommend to be centralized or decentralized? Justify your answer citing any assumptions made. **(8 Marks)**

(ii.) Describe three key risks that may affect the duration and / or cost of the project. **(6 Marks)**

b) Describe how a software developer can make use of the internet. **(6 Marks)**

(Total 20 Marks)

QUESTION FOUR

a) Suggest three types of decisions that a management accounting information system can support indicating the type of accounting information required to support each decision. **(6 Marks)**

b) It is claimed that fourth generation languages (4GLs) can reduce delays in applications development and make information freely and readily available.

Comment on this statement discussing four grounds that consistently support or disapprove it. **(6 Marks)**

c) What does an organization's approach to system conversion depend on? **(6 Marks)**

d) In the context of computer programming, differentiate between source code and object code. **(2 Marks)**

(Total 20 Marks)

QUESTION FIVE

a) Describe any three features of information needed for strategic planning. **(6 Marks)**

b) What risks do you see in using information communications technology (ICT) as a strategic resource and what actions should be taken to make ICT a viable strategic resource? **(6 Marks)**

c) Electronic point of sale (EPOs) and Automatic Teller Machines (ATMs) are the dominant terminals currently being used in business. Briefly explain three summary reports that are likely to be generated by each terminal. **(6 Marks)**

d) Differentiate between logical file structure and physical file structure. **(2 Marks)**

(Total 20 Marks)

QUESTION SIX

a) In modern economies, the volume of trade transacted by enterprises over the internet is rapidly increasing than that transacted through the traditional channels. Discuss how any two traditional functions of doing business have moved to the internet and the benefits this movement has brought to the enterprise. **(10 Marks)**

b) Most governments are embracing information communication technology through the implementation of e-governance initiatives. Describe what is meant by e-governance and give four areas in which e-governance is beneficial to the public. **(10 Marks)**

(Total 20 Marks)

QUESTION SEVEN

a) Documentation includes a wide range of technical and non-technical manuals, books, descriptions and diagrams relating to the use and operation of produced software. It is vital for software engineering to allocate adequate time to the software engineering particularly documentation throughout its development.

Highlight

(i.) Importance of system documentation **(6 Marks)**

(ii.) Content of Documentation. **(6 Marks)**

b) Highlight the advantages and disadvantages of tailor made and off the shelf software. **(8 Marks)**

(Total 20 Marks)

End of question paper