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## **CERTIFIED ACCOUNTING TECHNICIAN**

### **LEVEL 2 EXAMINATIONS**

#### **L2.2: INFORMATION SYSTEMS**

**MONDAY: 8 JUNE 2015**

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#### **INSTRUCTIONS:**

- 1. Time Allowed: 3 hours 15minutes** (15 minutes reading and 3hours writing).
- This examination has **seven** questions and only **five** questions are to be attempted.
- Marks allocated to each question are shown at the end of the question.
- Any assumptions made should be clearly and concisely stated.

## QUESTION ONE

Explain System investigation (including feasibility study) as one stage of System Development Life Cycle  
(Total 20 Marks )

## QUESTION TWO

a) TWITEZE IMBERE SACCO needs to take decisions on installation of Information Technology infrastructure in all its offices.

**REQUIRED:** (10 Marks)

Discuss the key infrastructural components to be taken in to consideration:

b) Using examples, discuss the role of Information Systems in business today. (10 Marks)

(Total 20 Marks )

## QUESTION THREE

a) Social networking platforms today can allow organizations, to improve communication and productivity by disseminating information among different groups of employees in a more efficient manner.

Describe four advantages of social networking (4 Marks)

**REQUIRED:**

i) Identify any two social networking sites (2 Marks)

ii) Differentiate between social network and social media. (2 Marks)

b) A virus is a malicious program designed to spread and replicate from one computer to another through telecommunication links or through sharing of removable storage media and files.

i) Describe any four effects of a virus in a computer (4 Marks)

ii) Describe any two symptoms of a computer that has virus (4 Marks)

iii) Outline four parts of a computer that a virus can attack. (4 Marks)

(Total 20 Marks)

## QUESTION FOUR

a) Discuss how Internet and Internet technology work, and how they support communication and e-business. (10 Marks)

b) Explain why information systems are vulnerable to destruction, error and abuse. (10 Marks)

(Total 20 Marks)

## QUESTION FIVE

Explain how using databases improve business performance and helps in decision making. **(Total 20 Marks)**

## QUESTION SIX

PTC Ltd is a Banking Institution having 10 branches in the country, currently it is using a manual accounting information system which is associated with the following main problems: arithmetic errors, data storing and security and information sharing.

The Management decided to replace this manual information system by an Enterprise Resource Planning (ERP).

### REQUIRED:

a) Explain how implementation of this ERP should be done **(16 Marks)**

b) If PTC Ltd prefers direct changeover conversion strategy, what four possible problems can arise?

**(4 Marks)**

**(Total 20Marks)**

## QUESTION SEVEN

a) Differentiate between

i) A Mainframe computer and a work station **(3 Marks)**

ii) Input and output devices **(2 Marks)**

b) Outline the five basic operations performed by any computer system? **(5 Marks)**

c) SIZMANSKI Ltd. is a manufacturing Company; its information system is not strongly secured as indicated below:

- It is not possible to identify who entered, changed or retrieved data.
- Anyone can access information on any computer having SIZMANSKI Ltd's information system.

### REQUIRED:

Discuss four main recommendations you can give to SIZMANSKI Ltd to improve its information system.

**(10 Marks)**

**(Total 20 Marks )**

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# End of question paper

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