

CERTIFIED ACCOUNTING TECHNICIAN

LEVEL 2 EXAMINATIONS

L2.2: INFORMATION SYSTEMS

MONDAY: 30 DECEMBER 2015

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) Distinguish between:
- (i) Incremental model and Rapid Application Development (RAD) model. (2 Marks)
 - (ii) Customized software and off-shelf software. (2 Marks)
- (b) With examples, identify the three types of systems software. (6 Marks)
- (c) An important role of a project manager is to anticipate risks which may affect the project schedule or the quality of the software being developed and to take action to avoid these risks.

REQUIRED:

Explain any five risks the project manager may forecast during software development. (10 Marks)

(Total 20 Marks)

QUESTION TWO

- (a) Identify any two social networks used in Rwanda today. (2 Marks)
- (b) State any two threats to information security in an organization. (2 Marks)
- (c) With examples, explain:
- (i) Four negative effects of internet on business organizations in the Republic of Rwanda. (8 Marks)
 - (ii) Four methods of protecting information in an organization that uses information systems. (8 Marks)

(Total 20 Marks)

QUESTION THREE

- (a) Define Artificial intelligence as used in information system. (4 Marks)
- (b) Explain the function executive support system in organization (4 Marks)
- (c) Explain the following:
- (i) Office automation as used in an organization. (2 Marks)
 - (ii) Benefits of working in an office automated environment. (10 Marks)

(Total 20 Marks)

QUESTION FOUR

- (a) Define the following terms as used in information systems:
- (i) Digital firm (2 Marks)
 - (ii) Operating system (2 Marks)
- (b) Software is the general name give to all the programs that can be run on a computer hardware without which the computer cannot run.

REQUIRED:

Discuss any four issues an organization would consider to select appropriate software. (8 Marks)

(c) Disk drives are some of the important components of a system unit.

REQUIRED:

(i) State any two examples of disk drives. (2 Marks)

(ii) Explain three precautions taken to protect a disk drive from damage. (6 Marks)

(Total 20 Marks)

QUESTION FIVE

(a) (i) Explain the term expert systems. (2 Marks)

(ii) Identify any two conditions a manufacturing firm would put expert systems to use. (4 Marks)

(b) A database is a collection of structured data.

REQUIRED:

Describe the basic features of a database. (6 Marks)

(c) Explain any four reasons a business firm should use a decision support system. (8 Marks)

(Total 20 Marks)

QUESTION SIX

It is vital to back-up organizational information for reasons like avoiding data redundancy and data loss.

REQUIRED:

(a) Explain the following terms:

(i) Remote backup. (2 Marks)

(ii) Master file. (2 Marks)

(iii) Transaction file. (2 Marks)

(b) Hardware is the physical components of a computer. Describe any four measures that can be put in place to protect computer hardware. (8 Marks)

(c) Discuss three limitations of electronic learning in today's computer era. (6 Marks)

(Total 20 Marks)

QUESTION SEVEN

(a) Explain the different types of computer network. (3 Marks)

(b) Organizations have opted to use information and communication technology in their routine business processes.

REQUIRED:

(i) List seven common information and communications technology (ICT) office applications used in organizations today. (7 Marks)

(ii) Discuss any five ways information systems have been misused in today's Information and Communication Technology environment. (10 Marks)

(Total 20 Marks)

End of question paper



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