



**L-Università
ta' Malta**

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE
EXAMINATIONS BOARD

**SECONDARY EDUCATION CERTIFICATE LEVEL
2023 MAIN SESSION**

SUBJECT:	Information Technology
PAPER NUMBER:	Controlled – Unit 1
DATE:	14 th May 2021
TIME:	10:00 a.m. to 11:35 a.m.

**THIS PAPER SHOULD BE RETURNED TO THE INVIGILATOR
AFTER THE EXAMINATION.**

Name of candidate _____

I.D. number _____

School _____

Class _____

Answer **ALL** questions in the space provided.

Scenario

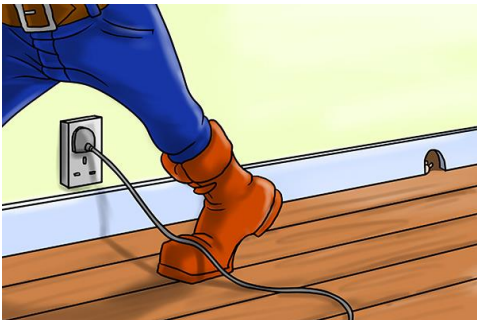
- RBC is a software development company.
- The number of RBC's customers is continuously increasing.

Question 1

K-1 (4 marks)

Health and Safety is very important at RBC. The company tries to reduce hazards in the working environment.

a) Identify the **FOUR** hazards shown in the images below.

	Image	Hazard
i.	 (Source: https://www.tech4law.co.za/)	(0.25)
ii.	 (Source: https://bipolarfreaks.wordpress.com/)	(0.25)

iii.	 (Source: https://www.psaoc.org)	(0.25)
iv.	 (Source: https://www.chalkbeat.org)	(0.25)

b) List **FOUR** risks which might arise from the hazards mentioned in part a.

Risk from Hazard 1: _____ (0.25)

Risk from Hazard 2: _____ (0.25)

Risk from Hazard 3: _____ (0.25)

Risk from Hazard 4: _____ (0.25)

This question continues on next page.

- c) Outline **FOUR** possible precautions which might be taken to minimise the risks mentioned in part b.

Precaution for Risk 1: _____

_____ (0.5)

Precaution for Risk 2: _____

_____ (0.5)

Precaution for Risk 3: _____

_____ (0.5)

Precaution for Risk 4: _____

_____ (0.5)

Question 2

K-3 (4 marks)

RBC is considering buying new computer systems.

- a) List **FOUR** different types of computer systems, except for tablets.

Computer System 1: _____ (0.25)

Computer System 2: _____ (0.25)

Computer System 3: _____ (0.25)

Computer System 4: _____ (0.25)

- b) RBC, designs and creates leaflets to promote the software it develops. From the box below, select an appropriate input and output device for the company.

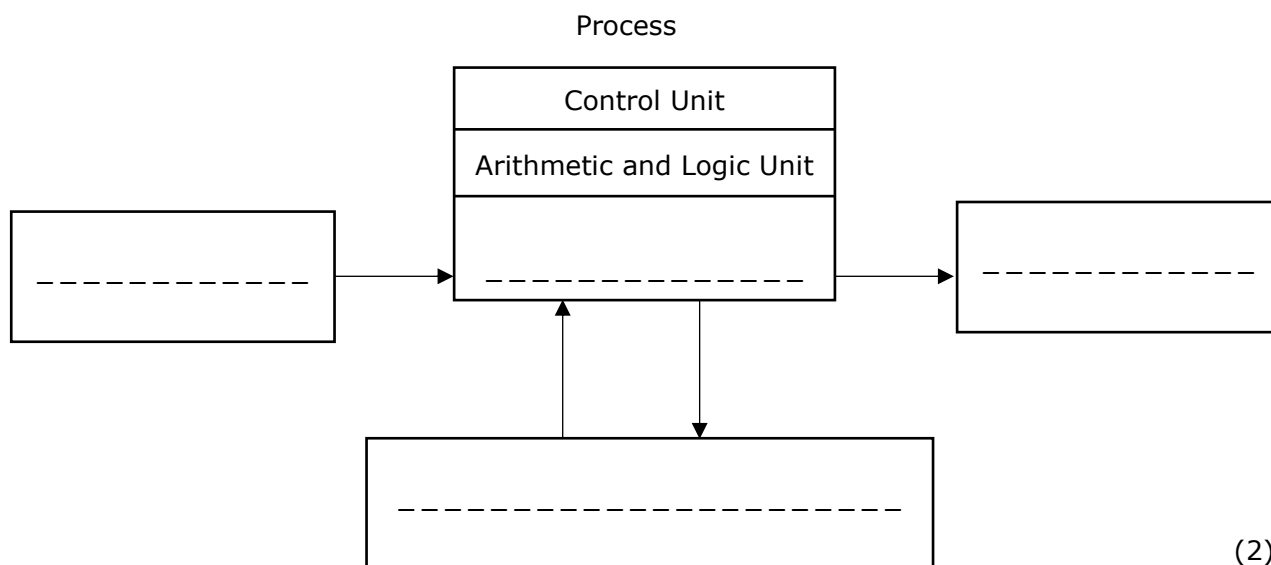
Touchpad, Headphones, Graphics Tablet, Braille Keyboard, Optical Mark Reader, Plotter, 2D-printer, VR Headset

Input Device: _____ (0.5)

Output Device: _____ (0.5)

- c) An employee needs to present how data flows in a computer system.

Complete the following data flow diagram by filling in the missing words indicated by the dashed lines:



Please turn the page.

Question 3**C-2 (6 marks)**

a)

- The owner of RBC decided to give a tablet to each employee.
- This will be used for meetings outside of the office.
- It will be used for basic applications such as note taking and sending emails.
- The tablets shown in Table 1 were considered.

Table 1: Tablet Specifications

	Tablet A	Tablet B
Screen size	10"	15"
Processor	Intel Pentium 4415Y	Intel Core i7-8650U
Processor speed	1.6GHz	1.9GHz

Justify why Tablet A was chosen instead of Tablet B in terms of portability and speed:

i. Portability: _____

 _____ (1)

ii. Speed: _____

 _____ (1)

- b) The company aims to keep digital copies of all its documents. It will also organise conferences. A scanner and a projector were bought.

Justify, in terms of use, how these **TWO** devices can help the employees.

i. Justification of scanner in terms of use: _____

 _____ (1)

ii. Justification of projector in terms of use: _____

 _____ (1)

Question 4**K-4 (4 marks)**

The owner of RBC decided that some computer systems need an upgrade.

a) Label the following **FOUR** internal components.

Image	Internal Hardware Component Name
 (Source: www.shutterstock.com)	(0.25)
 (Source: www.shutterstock.com)	(0.25)
 (Source: https://www.cpumedics.com)	(0.25)
 (Source: https://www.currys.co.uk)	(0.25)

- b) List **TWO** reasons why a computer upgrade may be required.

Reason 1: _____
_____ (0.5)

Reason 2: _____
_____ (0.5)

- c) Outline **TWO** implications related to computer upgrades.

_____ (2)

Question 5

K-8 (4 marks)

After replacing/installing/upgrading internal hardware components, a documentation needs to be written.

- a) Name **FOUR** sections which form part of a Replacement/Installation/Upgrade (RIU) documentation.

Section 1: _____ (0.25)

Section 2: _____ (0.25)

Section 3: _____ (0.25)

Section 4: _____ (0.25)

This question continues on next page.

- b) Outline the content of any **TWO** sections mentioned in part a above.

Name of section: _____

Content of section: _____

 (0.5)

Name of section: _____

Content of section: _____

 (0.5)

- c) One of the managers still needs to be convinced on the importance of documentation. Describe **TWO** reasons why it is important to document the Replacement/Installation/Upgrade (RIU) of computer hardware.

Question 6

K-9 (4 marks)

The employees at RBC are aware about the importance of registering new product.

- a) Define the term 'product registration'.

(1)

- b) Identify **TWO** methods used for registering products from the ones given below:

by drawing	online	verbally	by post
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Method 1: _____ (0.5)

Method 2: _____ (0.5)

- c) List **FOUR** advantages of product registration.

[illegible]

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