

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD

SECONDARY EDUCATION CERTIFICATE LEVEL 2023 MAIN SESSION

SUBJECT: PAPER NUMBER: DATE: TIME:	Information Technology Controlled – Unit 1 14 th May 2021 10:00 a.m. to 11:35 a.m.	
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AFTER THE EXAM	OULD BE RETURNED TO THE INVIGILAT INATION.	UK
Name of candidate		
I.D. number	·	
School		
Class		

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

Scenario

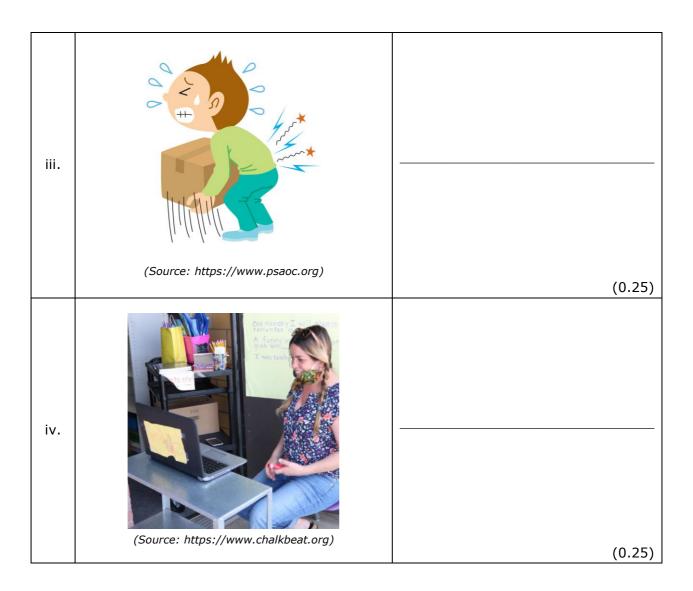
- RBC is a software development company.
- The number of RBC's customers is continuously increasing.

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)



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)

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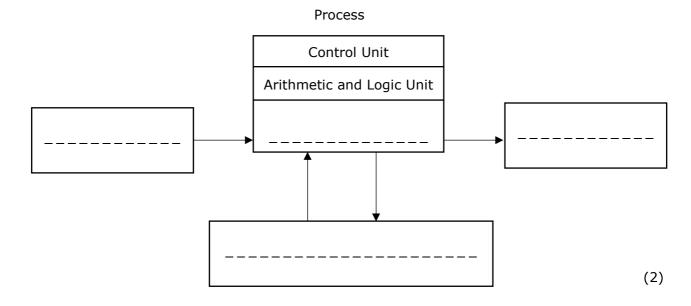
c)	Outline FOUR possible precautions which might be taken to minimise the risks mentioned in part b.			
	Precaution for Risk 1:			
	Precaution for Risk 2:			
	Precaution for Risk 3:			
	Precaution for Risk 4:			
Qu	estion 2	K-3 (4 marks)		
RB	C is considering buying new computer systems.			
a)	List FOUR 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.

	Tablet, Braille Keyboard, Optical Mark Reader, D-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: Portability: _____ ii. Speed: _____ 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. Justification of scanner in terms of use: ii. Justification of projector in terms of use:

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- The company has been backing up data on magnetic tapes.
- One of the employees pointed out that Hard Disk Drives would be more effective for data backups.

Justify why Hard Disk Drives are more appropriate than magnetic tapes in terms of acces speed and storage capacity.				
	(2)			

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)		
Qu	uestion 5 K-8 (4 ma	arks)		
	er replacing/installing/upgrading internal hardware components, a documentation needs itten.	to be		
a)	Name FOUR sections which form part of a Replacement/Installation/Upgrade documentation.	(RIU)		
	Section 1:(0.25)		
	Section 2:(0.25)		
	Section 3:(0.25)		
	Section 4:((0.25)		

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o)	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:		
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/Install Upgrade (RIU) of computer hardware.	ation,	
		(2)	

Qu	Question 6 K-9 (4 marks)						
The	e employees at	RBC are aware abo	out the impo	rtance of reg	istering new p	oroduct.	
a)	Define the ter	m 'product registra	tion'.				
b)	Identify TWO	methods used for I	registering p	products from	the ones give	en below:	
		by drawing	online	verbally	by post		
	Method 1:						(0.5)
	Method 2:						(0.5)
c)	List FOUR adv	vantages of product	t registration	า.			
							(2)

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