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MATRICULATION AND SECONDARY EDUCATION CERTIFICATE EXAMINATIONS BOARD

SECONDARY EDUCATION APPLIED CERTIFICATE LEVEL 2022 SUPPLEMENTARY SESSION

SUBJECT: Information Technology

PAPER NUMBER: Synoptic – Unit 1 DATE: 1^{st} November 2022 TIME: 2:30 p.m. to 4:35 p.m.

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

For examiners' use only:

Question	1	2	3	4	5	6	Total
Score							
Maximum	6	12	8	8	8	8	50

Answer **ALL** questions in the space provided. You may answer either in English or in Maltese.

Scenario

- 'Better Vision' produces and sells reading glasses and sunglasses.
- Joe is the manager of the company.
- He knows that computers are required for the day-to-day running of the business.
- Joe checks that the computer systems are up-to-date to ensure that an efficient service is provided to the clients.

Q	uestion 1 K-	·1 (6 marks)
a.	List FOUR different types of computer systems, apart from laptop.	
	Computer System 1:	(0.5)
	Computer System 2:	(0.5)
	Computer System 3:	(0.5)
	Computer System 4:	(0.5)
b.	 'Better Vision' needs to project promotional adverts on the walls of the shop. Also, Joe would like to make use of the products barcode so that when a productable are stored in the computer. From the table below, select the most appropriate input and output device for the computer.	
	Scanner Mouse Projector Barcode Reader Speakers	
	Appropriate Input Device:	(1)
	Appropriate Output Device:	(1)
c.	'Better Vision' stores data on DVDs. Outline the following TWO properties of device.	f this storage
	Storage technology:	
		(1)

Portability:	
(1)	6

Question 2 C-1 (12 marks)

- Joe needs to buy new laptops for his employees.
- He would like these laptops to be fast, but he does not want to spend a lot of money.
- Joe selected Laptop A from the following two options.

	Laptop A	Laptop B
RAM	8GB DDR4	6GB DDR4
CPU Speed	2.8 GHz	1.9 GHz
Cost	948 Euro	1121 Euro

a.	Justify why Laptop A is appropriate for Joe's business with respect to speed and cost.	
	Justification with respect to speed:	
		(2
	Justification with respect to cost:	
		(2

This question continues on next page.

- b. Joe also needs to buy a new printer to print high quality documents.
 - This printer will be placed in a common area so that it can be used by all employees who work in different offices.
 - Out of the following options, Joe opted for Printer B.

	Printer A	Printer B
Туре	Laser	Laser
Maximum Resolution	4800 x 1200 dpi	5760 x 1440 dpi
Connectivity	Wired	Wireless and USB
Warranty	2 years	3 years

i. Just	ify the selection of Prin	ter B with respect to s	pecifications and connectivity.	
Justific	ation with respect to sp	ecifications:		
				(1)
Justific	ation with respect to co	nnectivity:		
				(1)
	also intends to buy som of the following options	•	who prefer a stand-alone keyboard A. Keyboard B	ard.
	Keycaps sound	Silent Keycaps	Keycaps make slight noise	
	Connectivity	Wireless	USB	
		·	o specifications and connectivity.	
				(1)

Justification with respect to connectivity:	
	(1)
 Joe also intends to buy some secondary storage devices for storage purposes. These will be used to backup important data from each laptop on a daily basis. He decided to buy Solid-State Disks (SSDs) rather than magnetic tapes. 	
Justify the use of SSDs over magnetic tapes with respect to access speed and portability.	
	_
	1

Question 3 K-2 (8 marks)

- Joe is worried that the environment is not safe for the workers.
- The images below show some hazards.
- a. Identify the hazards represented in the below images:



(Source: https://www.shutterstock.com/)

Hazard 1: ______ (1)



(Source: https://www.alamy.com)

	Hazard 2:	(1)
b.	List ONE possible risk which might arise from each hazard identified in Question 3a.	
	Risk from Hazard 1:	(1)
	Risk from Hazard 2:	(1)
c.	While going around the working place, Joe noted some other hazards and possible risks. Outline ONE possible precaution to minimise:	
	i. the risk resulting from not sitting properly on the computer chair:	
	ii. the risk resulting from a fire caused by an electrical short circuit:	
Q	uestion 4 K-4 (8 ma	rks)
•	One of the computers at 'Better Vision' is not working as expected. Joe asked the computer technician to replace the Hard Disk Drive (HDD). However, the RIU (Replacement/Installation/Upgrade) was not completely successful.	
a.	List TWO issues which can cause an RIU to be unsuccessful.	
	Issue 1:	(1)

Issue 2: ______ (1)

b. Describe TWO ways which can be used to test an RIU.	
Way of testing 1:	
	(1)
Way of testing 2:	
	(1)
c. Outline ONE possible solution which can be used to solve each issue listed in	Question 4a.
Solution for Issue 1:	
	(2)
Solution for Issue 2:	
	(2)
Question 5	K-7 (8 marks)
After replacing the Hard Disk Drive (HDD), the technician needs to install softwa	ire.
a. Name TWO different types of software.	
Software Type 1:	(1)
Software Type 2:	(1)
b. List TWO different examples for each type of software named in Question 5a.	
Examples for Software Type 1	
Example 1:	(0.5)
Example 2:	(0.5)

This question continues on next page.

	Examples for Software Type 2		
	Example 1:	_ (0.5)	
	Example 2:	_ (0.5)	
c.	Differentiate between the two types of software named in Question 5a. differentiate on TWO different aspects.	You are required to	
	Difference 1:		
		(2)	
	Difference 2:		
		(2)	_
Qι	uestion 6	K-8 (8 marks)	
	Different types of local user accounts are utilised by 'Better Vision'. Every employee has a particular user account depending on his/her role in	n the company.	

- a. List **TWO** different types of local user accounts, apart from standard.

Local User Account 1:	_(1)
Local Hoor Account 2	(1)
Local User Account 2:	_(⊥)

Describe the purpose of each local user account listed in Question 6a.	
Purpose of Local User Account 1:	
Purpose of Local User Account 2:	
Outline TWO advantages and TWO disadvantages of online user accounts.	
Advantage 1:	
Advantage 2:	
Disadvantage 1:	
Disadvantage 2:	(1)
	(1)

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