



L-Università  
ta' Malta

MATRICULATION AND SECONDARY EDUCATION CERTIFICATE  
EXAMINATIONS BOARD

**SECONDARY EDUCATION APPLIED CERTIFICATE LEVEL  
2021 SUPPLEMENTARY SESSION**

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|---------------|-------------------------------|
| SUBJECT:      | <b>Information Technology</b> |
| PAPER NUMBER: | Synoptic – Unit 1             |
| DATE:         | 3 <sup>rd</sup> November 2021 |
| TIME:         | 9:00 a.m. to 11:05 a.m.       |

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

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

**Scenario**

- 'PencilBox' is a new stationery which has just opened in Kirkop.
- The owner of the stationery, Rita, is not very enthusiastic about computers.
- However, she knows that computers are required for the day-to-day business activities.

**Question 1**

**K-1 (6 marks)**

a. List **FOUR** different types of computer systems, except for desktop computer and laptop.

Computer system 1: \_\_\_\_\_ (0.5)

Computer system 2: \_\_\_\_\_ (0.5)

Computer system 3: \_\_\_\_\_ (0.5)

Computer system 4: \_\_\_\_\_ (0.5)

b. Rita wants to buy a new computer system and needs new input and output devices. From the box below, select an appropriate input or output device for each situation.

Mouse, 2D-Printer, Keyboard, Speakers

i. Rita needs a device to type documents and emails. Which device should she buy?

\_\_\_\_\_ (1)

ii. Rita wants to play some background music while at the stationery. Which device should she buy?

\_\_\_\_\_ (1)

c. Rita needs a USB flash drive (pendrive) to store data. Outline **TWO** properties of this storage device.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2)

**Question 2****C-1 (12 marks)**

- Rita is not sure which computer system to buy for her shop.
- a. The computer will be used to keep client details and print documents. The computer will only be used in the shop. Rita is thinking of buying Computer A.

Table 1: Computers Specifications

|                    | <b>Computer A</b> | <b>Computer B</b> |
|--------------------|-------------------|-------------------|
| <b>Type</b>        | Desktop computer  | Laptop            |
| <b>RAM</b>         | 8GB DDR4          | 8GB DDR4          |
| <b>CPU</b>         | 3.5GHz            | 2.2GHz            |
| <b>Screen size</b> | 24"               | 16"               |
| <b>Weight</b>      | 5.5kg             | 2kg               |
| <b>Cost</b>        | €700              | €650              |

Justify why Rita should buy Computer A and not Computer B in terms of speed and portability.

Justification in terms of speed: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_ (2)

Justification in terms of portability: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_ (2)

- b. i. Rita bought Barcode Reader A for her stationery. Justify this decision with respect to specifications and after-sales service.

Table 2: Barcode Readers Specifications

|                 | <b>Barcode Reader A</b> | <b>Barcode Reader B</b> |
|-----------------|-------------------------|-------------------------|
| <b>Type</b>     | Hand-held               | Fixed                   |
| <b>Warranty</b> | 3 years                 | 2 years                 |

Justification in terms of specifications: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_ (1)

***This question continues on next page.***

Justification in terms of after-sales service: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (1)

- ii. Rita also bought a printer to print reports and documents. She bought Printer B. Justify her choice in terms of use and cost.

Table 3: Printers Specifications

|                                 | <b>Printer A</b> | <b>Printer B</b> |
|---------------------------------|------------------|------------------|
| <b>Type</b>                     | Inkjet           | Laser            |
| <b>Colour output</b>            | Colour           | Black and White  |
| <b>Input tray capacity</b>      | 50 papers        | 150 papers       |
| <b>Consumable cost per page</b> | €0.05            | €0.01            |
| <b>Cost</b>                     | €50              | €100             |

Justification in terms of use: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (1)

Justification in terms of cost: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (1)

- c. Rita bought Storage Device A to backup documents on a daily basis in order to ensure that a copy of the data is available in case of data loss. Justify this decision in terms of capacity and storage technology.

Table 4: Storage Devices Specifications

|                 | <b>Storage Device A</b> | <b>Storage Device B</b> |
|-----------------|-------------------------|-------------------------|
| <b>Type</b>     | External HDD            | External SSD            |
| <b>Capacity</b> | 4TB                     | 1TB                     |
| <b>Cost</b>     | €115                    | €129                    |







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**Question 5**

**K-7 (8 marks)**

- Rita wants to install some software on the computer system, after a recent format.

a. Name **TWO** different types of software:

Type of software 1: \_\_\_\_\_ (1)

Type of software 2: \_\_\_\_\_ (1)

b. List **TWO** examples for each type of software named in Question 5a.

Examples for type of software 1

Example 1: \_\_\_\_\_ (0.5)

Example 2: \_\_\_\_\_ (0.5)

Examples for type of software 2

Example 1: \_\_\_\_\_ (0.5)

Example 2: \_\_\_\_\_ (0.5)

c. Differentiate between the two types of software named in Question 5a. You are required to differentiate on **TWO** aspects.

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