CANDIDATE NAME	

CENTRE NUMBER						CANDIDATE NUMBER				

INFORMATION AND COMMUNICATION TECHNOLOGY **5924/2A**

Paper 2 Part A (Theory) **October/November 2023**

1 hour

Additional Material

No Additional Materials are required. **Total: 40 marks**

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided.

Write in dark blue or black pen.

Answer all questions on the paper.

Do not use staples, paper clips, highlighter, glue or correcting fluid.

Answer **all** questions in the spaces provided.

The number of marks is given in brackets [ ] at the end of each question or part question.

This document consists of **7** printed pages and **1** blank page.

1 Complete each sentence below using **ONE** item from the list.

Double entry   A graphics tablet   A laser printer   A microphone

A multimedia projector   A length check   A speaker

A temperature sensor   A magnetic tape

(a) .... is a form of verification.

(b) .... is used to input data into a computer-controlled greenhouse.

(c) .... is used to create a newsletter.

(d) .... is a validation rule.

[4]

2 Tick **True** or **False** next to each of these statements.

		True (✓)	False (✓)
(a)	The contents of HTML tags can be read wirelessly and are often used in long-distance cycling and road races during which the tags are worn by the competitors.		
(b)	An Internet browser is used by web designers to test web pages.		
(c)	A blog is an area in a coffee shop, hotel or airport where people can connect to the Internet via Wi-Fi-enabled devices.		
(d)	A hyperlink can be used to navigate on web pages and websites.		
(e)	Motors are input devices.		

[5]

3 The owner of a sports club is planning to install a computerised stock control system.

He has employed a systems analyst. The systems analyst is using the systems life cycle to develop a new system.

(a) Tick the relevant stage of the systems life cycle for each of the following activities.

Activity	Analysis (✓)	Design (✓)	Evaluation (✓)
Interviewing the users of the new system after it has been installed.			
Interviewing the users of the existing system.			
Planning the validation routines.			
Examining existing documents.			

[4]

(b) Before the system can be installed, the systems analyst has to decide on a method of implementation.

Name and describe **three** methods of implementation.

Name ....

Description ....

....

Name ....

Description ....

....

Name ....

Description ....

.... [6]
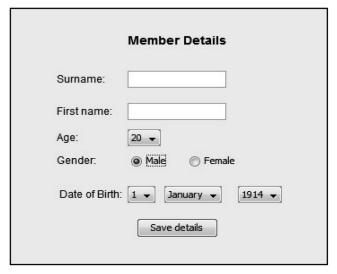
(c) The system analyst has produced user and technical documentation of the system.

Name **THREE** items found in the technical documentation.

1 ....

....

2 ....

....

3 ....

.... [3]

(d) Name **THREE** items in the user documentation which are **NOT** present in the technical documentation.

1 ....

....

2 ....

....

3 ....

.... [3]

SECTION B

A community resource centre has computers that need to be networked to share its internet connection.

4 An access point will be installed in the resource centre to create a wireless network (WLAN).

(a) State **ONE** advantage in using a WLAN over a cable-based LAN.

....

.... [1]

(b) One access point is not sufficient for the resource centre.

Give **TWO** reasons why more than one access point may be needed.

1 ....

....

2 ....

.... [2]

(c) A password is required in order to access the WLAN.

Why does having a password not guarantee the security of the data in the WLAN?

....

.... [1]

                                             [Turn over

5 An administration program has been developed for the resource centre. The form below is used to input member's details.

Give a possible motivation for the choice of each of the following components:

(a) List box for the selection of the age

.... [1]

(b) Radio buttons for the selection of gender

.... [1]

The date selection will not prevent an invalid date from being selected.

(c) Explain this statement, giving an example to illustrate your answer.

....

....

....

.... [2]

6 The developers use an encryption key to secure their information transmitted over the Internet.

Explain how *key encryption* works.

....

....

....

.... [2]

7 Give a general name for an HTML element such as '<h1>' or ''.

.... [1]

8 State why web pages should **NOT** be saved as text.

....

.... [1]

9 Explain why the code for the following HTML horizontal line will **NOT** adjust its width automatically for different window sizes:

<hr width="600">

....

.... [1]

10 Tables in web pages use cell spacing and cell padding.

Explain **TWO** differences between cell spacing and cell padding.

1 ....

....

2 ....

.... [2]

8

BLANK PAGE