

TERM I

REVISION EXAMINATION

DECEMBER 2023 - 24

Key Stage 3 (Year VIII\_\_\_\_)

Date : December 2023

Name of the Candidate : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Subject : ICT Paper 1 - Theory

Maximum Marks : 80

**INSTRUCTIONS**

**Answer all questions.**Use a black or dark blue pen.
Write your name, centre number and candidate number in the boxes at the top of the page. Write your answer to each question in the space provided.
Do **not** use an erasable pen or correction fluid.
Do **not** write on any bar codes.
You may use an HB pencil for any diagrams, graphs or rough work.

**The total mark for this paper is 80.**The number of marks for each question or part question is shown in brackets [ ].
No marks will be awarded for using brand names of software packages or hardware.

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| --- | --- | --- |
| **Section** | **Maximum Marks** | **Marks Obtained** |
| **A** | **28** |  |
| **B** | **34** |  |
| **C** |  **18** |  |
| **TOTAL** | **80** |  |

Checked by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rechecked by : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section A**

1. Complete the question using an appropriate item from the list given.

 Blu-ray disc drive DVD RAM drive Hard disk drive Keyboard Laser printer

 LCD monitor Magnetic tape drive Mouse Pen drive SSD

(a) Identify two output devices from the list.

 1 ................................................................................................................................................

 2................................................................................................................................................ [2]

(b) Identify two optical storage devices from the list.

 1 ................................................................................................................................................

 2 ................................................................................................................................................ [2]

1. Tick whether the following are optical, magnetic or solid state storage media.

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| --- | --- | --- |
| **Optical (√)** | **Magnetic** **(√)** | **Solid state****(√)** |
| Hard disk |  |  |  |
| SD card |  |  |  |
| CD ROM  |  |  |  |
| Memory stick |  |  |  |

 [4]

1. A computer consists of both hardware and software.

(a) Define the term software.

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(b)There are two types of software.

Identify the types.

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1. Tick (✓) whether the following statements refer to a Command Line Interface (CLI) or a Graphical User Interface (GUI).



 [2]

1. Security of data is a major concern for people using computer systems. One method of protecting

the data is to use a strong password. This is an authentication technique.

(a) Name three other authentication techniques that could be used.

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2 ............................................................................................................................................................

3 ........................................................................................................................................................[3]

1. A student is using her computer to do her homework.

For each of the statements below, identify the health problem most likely to be associated with the

use of a computer and a possible solution to the problem. Your answers must be different in each

case.

|  |  |
| --- | --- |
| **Health Problem**  | **Possible Solution** |
| Reading from the monitor in poor lighting |  |  |
| Using a mouse for prolonged periods of time |  |  |
| Sitting too long in one position |  |  |

 [6]

1. RAM and ROM are types of storage.

(a) Describe the differences between RAM and ROM.

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(b) Explain what RAM and ROM are used for.

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**Section B**

1. A manager of a company based in North America is planning a meeting with colleagues in Australia. He could hold a video-conference or a face-to-face meeting. A face-to-face meeting is

when the colleagues attending the meeting are all together physically in one room.

(a) Give three advantages of holding a video-conference rather than a face-to-face meeting.

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(b) Give three disadvantages of holding a video-conference rather than a face-to-face meeting.

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1. People are buying smartphones rather than desktop computers.

Describe the differences between using a smartphone compared to a desktop computer.

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1. The network manager at a school has been asked to develop a student registration system to

help staff keep a record of student attendance.

(a)The school is planning to use fingerprints as a way to record when students arrive in the

 class.

 Describe the advantages and disadvantages of using fingerprint data entry for student

 registration systems rather than magnetic ID cards.

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(b)Fingerprints are one example of biometrics.

 Identify three other examples of biometrics.

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1. State what is meant by OMR and MICR, giving an example of their use.

OMR .................................................................................................................................................

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Example ...........................................................................................................................................

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MICR ................................................................................................................................................

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Example ...........................................................................................................................................

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 [4]

1. Every computer contains input and output devices and a central processing unit (CPU).

(a) Describe the CPU including its role.

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1. Driverless automobiles use a number of different methods to drive between two points.

(a)Modern automobiles contain electronic devices designed to help the driver.

Suggest three examples of labour-saving or safety devices in a modern automobile that use sensors.

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(b) Discuss the advantages and disadvantages of these devices in relation to automobile journeys.

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**Section C**

1. Lanfen has purchased a new computer. The computer has no internal storage. All the data is stored

in the cloud.

Compare and contrast computers that use cloud-based storage and computers that have internal

backing storage.

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1. There are many microprocessor controlled devices in the modern home. Discuss the effects of

these on people’s lifestyles.

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1. Compare and contrast Bluetooth and WiFi.

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