

REVISION - TERM I

EXAMINATION

DECEMBER

2024-2025

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

Date :

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

Subject : Information and Communication Technology

Maximum Marks : 80

Instructions to the candidate:

* The Exam is for 1 hours.
* Read the instructions carefully.
* Please make sure you have all stationery items.
* Write in dark blue or black pen.
* You may use a soft pencil for any diagrams, graphs or rough working.
* Do not use staples, paper clips, highlighters, glue or correction fluid.
* No marks will be awarded for using brand names of software packages or hardware.
* Answer all questions.
* At the end of the examination, fasten all your work securely together.
* The number of marks is given in brackets [ ] at the end of each question or part question.

|  |  |  |
| --- | --- | --- |
|  | **Maximum Marks** | **Marks Obtained** |
| **TOTAL** | **80** |  |

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

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

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. The Central Processing Unit consists of three components.

Tick (**√** ) whether the following statements refer to the ALU, the Control unit or the Main memory.

|  |  |  |
| --- | --- | --- |
| **ALU**  **(√ )** | **Control Unit**  **(√ )** | **Main Memory**  **(√ )** |
| This is the immediate access storage |  |  |  |
| This carries out the calculations |  |  |  |
| This carries out logical decisions |  |  |  |
| This directs the input and output flow in the CPU |  |  |  |

[4]

1. A computer system consists of a number of different items of hardware.

Write down the most appropriate item of hardware that fits the following descriptions.

(a) A non-volatile device that stores the start-up commands.

............................................................................................................................................. [1]

(b) A printer that produces physical objects.

............................................................................................................................................. [1]

(c) A hardware device that reads analogue data from the environment.

............................................................................................................................................. [1]

1. (a) A computer system consists of hardware and software.

Explain what is meant by software.

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………[2]

(b) Name the type of software from its description.

(i) This type of software lets you manage the hardware and software resources.

...........................................................................................................................................................[1]

(ii) Give an example of this type of software.

...........................................................................................................................................................[1]

(iii) This type of software lets you carry out tasks such as creating a document or an image.

...........................................................................................................................................................[1]

(iv) Give an example of this type of software.

...........................................................................................................................................................[1]

1. A student has completed some work at school and wishes to take it home. He could use a pen drive or a CD R disc to transport the files.
2. Give two error messages that could appear to stop him saving his work.

………………………………………………………………………………………………………………

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

1. Rowena’s laptop computer contains a small capacity Solid State Drive (SSD) of 32Gb and a large capacity Hard Disk Drive (HDD) of 1024Gb.

State, giving a reason for your choice, a use for the SSD and a use for the HDD in the laptop computer. Your answers must be different in each case.

1. (i) SSD ............................................................................................................................................ ...................................................................................................................................................................................................................................................................................................................................................................................................................................................................... [2]
2. (ii) HDD………...................................................................................................................................... ......................................................................................................................................................... ............................................................................................................................................................................................................................................................................................................. [2]

The laptop computer also contains internal memory.

Give two examples of internal memory.

1 ..................................................................................................................................................... 2 .................................................................................................................................................. [2]

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

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

[4]

1. A group of students are carrying out a study of the quality of river water for a project. They can either use a tablet computer or a smartphone to monitor and record their findings.

Discuss the advantages and disadvantages of using a tablet computer rather than a smartphone for this project.

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...........................................................................................................................................................[6]

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.

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

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

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

1. A variety of network devices can be used to connect computers together.

(a) Complete the following sentences using the most appropriate network device from the list.

Your answers must be different in each case.

**an access point a bridge a hub**

**a modem a network interface card a switch**

A device used to connect a Local Area Network (LAN) to another LAN that uses the same

protocol is called ...................................................................................................................................

A device used to convert a computer’s digital signal to an analogue signal for communication

is called .................................................................................................................................................

A device that connects a number of other devices and sends data to one specific device only

is ...........................................................................................................................................................

An item of hardware in a computer that allows a device to connect to a network is

...............................................................................................................................................................[4]

A router is used to connect a LAN to the internet. A message is sent from the router to another router.

(b) Give the name of the part of the router where the IP addresses are stored.

...............................................................................................................................................................

...........................................................................................................................................................[1]

1. Explain how the data from a router is routed.

......................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................[5]

1. Describe the differences between using a Graphical User Interface (GUI) and a Command Line

Interface (CLI).

....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................[4]

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.

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

..............................................................................................................................................................

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

..............................................................................................................................................................

3 ...........................................................................................................................................................

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

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

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

..............................................................................................................................................................

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

..............................................................................................................................................................

3 ...........................................................................................................................................................

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

1. People are buying smartphones rather than desktop computers.

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

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

..............................................................................................................................................................

..............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...........................................................................................................................................................[4]

1. Compare and contrast Bluetooth and WiFi.

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...........................................................................................................................................................[6]

1. A company’s employees can have access to the internet and the company intranet.

Describe the differences between an intranet and the internet.

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...........................................................................................................................................................[6]

1. Applications software can be installed on a computer’s hard disk but companies are increasingly

selling applications software that is stored in the cloud.

Discuss the advantages and disadvantages of using the cloud rather than a hard disk for applications software.

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...............................................................................................................................................................

...........................................................................................................................................................[6]