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1. **How many types of portable computer are there? What are they? Describe each types?**

* There are 4 types of portable computer. They are laptop, notebook, subnotebook, handheld or palmtop.

+ Laptop:

* About the size of a small typewriter.
* Less common now because smaller and lighter portable are available

+ Notebook :

* About the size of a piece of writing paper
* The most common type of portable

+ Subnotebook:

* Not quite as big as notebook
* Can fit into a jacket pocket

+ Handheld or palmtop: Small enough to fit into the palm of one hand.

* Not easy to type with because of their size
* Often used as personal organizers

1. **What is the difference between a mainframe and a PC**

* Mainframe

+ large, powerful, expensive

+ multi- user system- used by many people at the same time

+ used for processing very large amounts of data

+ the most powerful mainframes are called supercomputers

* PC

+ the most common type of computer

+ smaller, cheaper and less power full than mainframes and minicomputers

1. **Write the intructions for virus checking a disk**

* Put the disk into the drive
* Start the virus checking program
* select the drive to be checked
* Click the “ find” button
* Don’t exit the program until the check is complete
* Select “Yes” or “No” for checking another disk

1. **Write the instruction to format a disk**

* Put the disk into the drive
* Choose “Format” from the drop-down menu
* Choose the formatting options you require
* Click the “ Start” button
* Select “OK” to start formatting the disk
* Click the “OK” button when formatting is complete

1. **Name the input devices that you know(at least six). Give futher information about : a joystick, a trackerball and a scanner.**

* Name : joystick , lightpen , scanner, digital camera, mouse, keyboard, microphone

+ A joystick is able to move in eight directions a joysticks are mostly used in computer games to control the way a picture on the screen moves…

+ A trackerball works in exactly the same way as a mouse , except that the ball is on top. The user rolls the ball around with her hand to operate it…

+ Scanner : you can input printed drawing. Photographs, or text directl into a computer. A scanner works like a photocopier.

1. **What are the advantages and disadvantages of a digital camera**

+ Advantages:

* Digital camera don’t use film.You take pictures on to solid state memory
* The cost for each picture is low
* It is also easy to download the pictures

+ Disadvantages:

* Digital camera are more expensive than film cameras

1. **What are the advantages and disadvantages of a film camera.**

+ Advantages:

* Film camera are cheap
* The quality of film camera pictures is much better than digital camera

+ Disadvantages:

* Each picture costs a lot because there are processing costs
* The picture have to be scanned to transfer images to a PC.

1. **What are the main criteria to choose a good monitor**

The main criteria are price, screen size, aperture grill pitch, maximum resolution, refresh rate, safety standards, power-saving feature, on-screen menu.

1. **List the main advantages and disadvantages of dot-matrix printers, inkjet and laser printers**

* Dot-matrix printers (máy in mực)

Advantages:

* They are the cheapest kind of printer
* They are cheap to run

Disadvantages :

* Their print quality is low and they are slow and noisy
* Inkjet (máy in kim)

Advantages:

* Pay a bit more for an inkjet and you get better quality and quieter operation(vận hành)
* They are a good choose for colour.

Disadvantages :

* Inkjets are relatively slow and also expensive to run
* Laser printer :

Advantages:

* It gives you the best quality of output
* It prints faster than either of the other to types of printer and it costs less to run than an inkjet
* It is great for black and white

Disadvantages :

* It costs almost twice as much

1. **What are the four main section of an extended keyboard?How are they arranged on the keyboard?**

* The four main section of an extended keyboard are the main keyboard, the function keys ,the editing keys and the numeric keypad

+ the function keys are above the main keyboard

+ To the right of main keyboard is the editing keys

+ To the far right of the main keyboard is the numeric keypad

1. **Name 8 storage devices that you have learnt.Give the Vietnamese equivalence of each device.**

* Floppy disk : đĩa mềm
* Fixed hard disk : đĩa cứng cố định
* Removable hard disk : đĩa cứng có thể tháo rời
* CD\_ROM disk : đĩa CD\_ROM
* Magneto-optical disk : đĩa quang
* Magnetic tape : băng từ

1. **What are the advantages of floppy disks and hard disks ?**

* The floppy disks:
* floppies conform to a standard and you can use them to carry data from one place to another .
* they are also very cheap
* The hard disks:
* hard disks are fast and can store much greater amounts of data than floppies

1. **What are the advantages of removable hard disks and CD\_ROM disks ?**

* Removable hard disks:
* Removable hard disks are fast and have high capicities
* CD\_ROM disks: - CD\_ROM disks are very common and conform to a standard
* CD-ROM disks are removable and can hold quite large a mounts of data
* They are also cheap

1. **What are the advantages of Magneto-optical disks and magnetic tape ?**

* Magneto-optical disks: //đĩa từ quang
* Magnetic-optical disks are removable ,have large capacities and last for a long time
* You can write data on to them
* Magnetic tape
* Magnetic is cheap medium.
* Can use it to store very large amoounts of data.

1. **What is a net work?What is a LAN ? What is a WAN ?**

* A network is simple two or more computers linked together. It allows users to share not only data files and solfware applications, but also hardware like printers and other computer resources such as fax.
* A network that is connected over a small area is called LAN (local area networks)
* A network that is connected over a large area is called WAN (Wide area networks)

1. **Describe the main types of topologies?**

* A star topology:
* A star topology has a server computer at the centre and a separate cable connecting the server to each of the other computers in the network.The central server controls the flow of data in the network.
* A ring topology:
* A ring topology ,each computer is connected to its neighbour in a circle.The data flows in one direction round the ring
* A bus topology
* A bus topology has all the computers connected to a common cable.the data travels in both directions along the cable

1. **What are the main rules to make a good passwork?**

* password should
* be at least 6 characters long
* have a mixture of numbers and letters
* have a mixture of capital and small letters
* be easy to remember
* password should not
* be a word from a dictionary
* be a common name
* include spaces, hyphens ,dots ,or symbols with special meaning in computeing

1. **What should we do to protect your system from virus attack?**

* We shouldn’t open-email attachments from strangers and take care when downloading file from web
* Remember aslo to update your anti-virus software as often as possible .since new viruses are being created all the time

1. **What are the possible methods to protect your valuable information from computer hackers when you have the internet connection**

* You should set all security alerts to high on your Web browser.
* Netscape communication and internet explorer display a lock when the web page is secure and allow you to disable or delete ‘cookies’.
* If you use online bank services ,make sure your bank uses digital certificates .A popular security standard is SET(secure electronic transactions).

1. **Why is CPU considered to be the “brain”of a computer?**

Because its function is to execute program instructions and coordinate(tọa độ) the activities of all the other units.

1. **What are three basic steps of processing data?**

* First, data is fed into the computer’s memory.
* Then ,when the program is run, the computer performs a set of instructions and processes the data
* Finally, we can see the results (the output) on the screen or in printed form

1. **What are the three main types of computer crimes(tội phạm máy tính)?**

* The three main types of computer crimes :
* hackers break into computer systems just for fun
* hackers steal information
* hackers propagate viruses

1. **What are the main advantages of a computer?**

* We can use a computer to process data ,store data ,display data on the screen or printed form .A computer can work exactly, rarely make a mistake .
* If you have a computer with the internet connection .You can communicate with anyone far away quickly and cheaply ,study many subjects without going out ,entertain by watching film …,search for information ...

1. **What is a client/server system?**

* Client:

This is the desktop computer or notebook computer on your desk. It is linked to the server and can access file and applications on it

* Server:

Most networks have at least one central computer which all the desktop computers connect to. This is the most important computer on your network. It stores the data file and application software programs that the users need to access or share with others

1. **Why shouldn’t we use words in the dictionary or common names as password?**

Because hackers can use special computer programs which automatically try all the works and combination words in a computerized dictionary to try to discover or crack other users’ passwords

1. **What do we have to do to keep an e-mail secret when we send it on the internet?**

We have to put e-mail in a sort of ‘envelope’ ,that is ,to encode it with some form of encryption . A system designed to send e-mail privately is Pretty Good Privacy

1. **What are the rules for making a good password?**

* password should
* be at least 6 characters long
* have a mixture of numbers and letters
* have a mixture of capital and small letters
* be easy to remember
* password should not
* be a word from a dictionary
* be a common name
* include spaces, hyphens ,dots ,or symbols with special meaning in computeing

1. **What are the advantages of a word processing over a traditional typewriter?**

* We can use word processing package in the computer instead of a typewriter to process data
* It can be considered as a magical type writer ,it allows to store data ,process data, display output on the screen ,or print the output if you want ,you can manipulate data with a computer but you can’t do with a typewriter