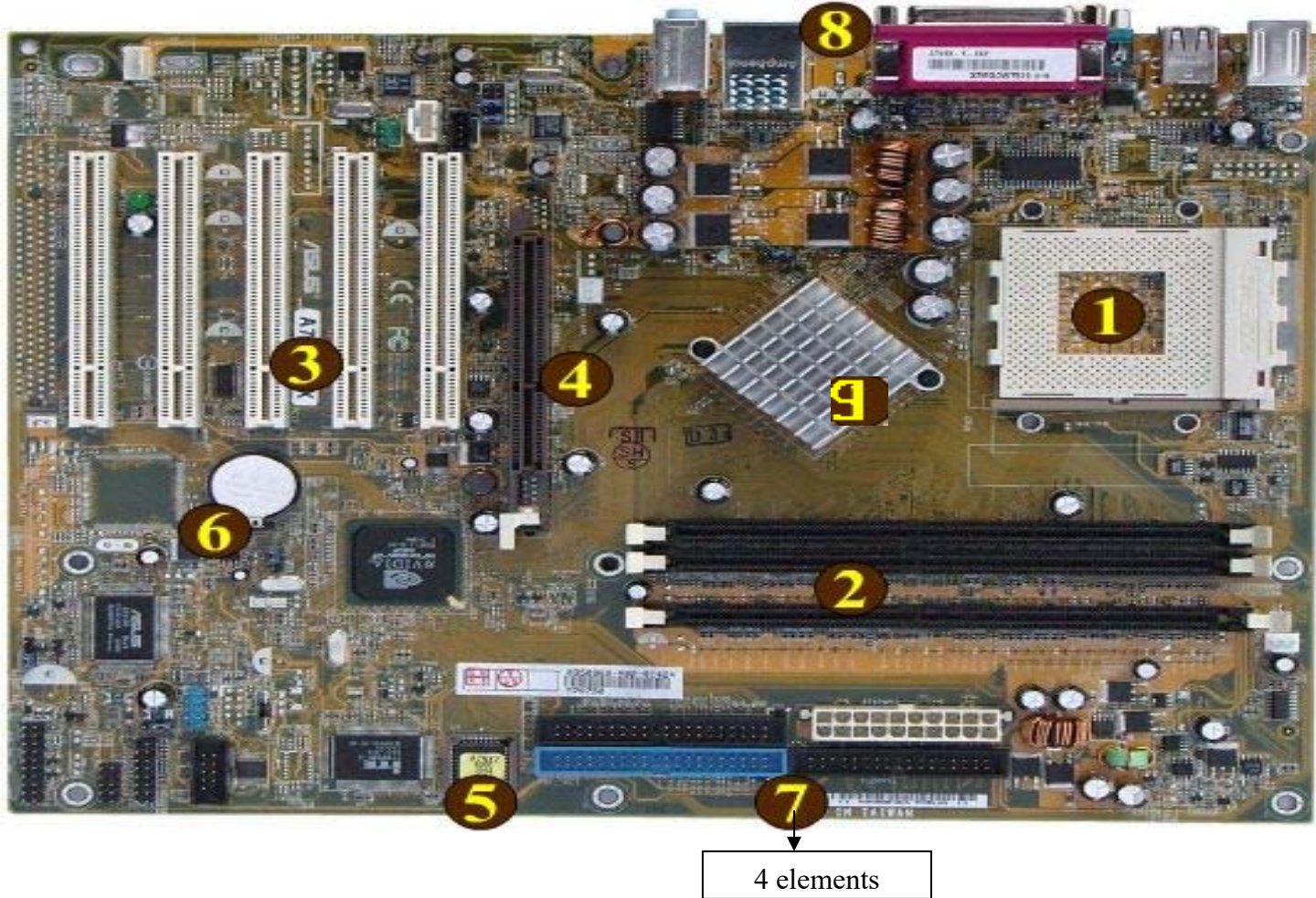


Treat the following questions:

Part A: Computer Assembly

I- **Precise the name of the following motherboard components :**

(2½pts)



4 elements

II- **Answer the following questions:**

(3 pts)

- Draw a table showing the differences between SRAM and DRAM?
- What is the meaning of these abbreviations SIMM, DIMM and RIMM ?
- Given these two memory bars:

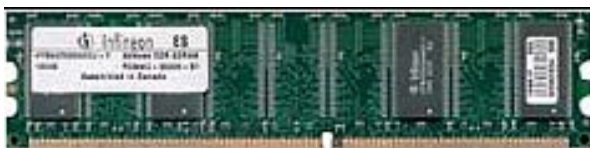


Figure 1



Figure 2

- Are they SRAM or DRAM?
- Specify, for each figure, if it is of type SIMM, DIMM or RIMM.
- Specify the name (abbreviation and meaning) and the number of pins for each bar.

III- **Choose the right answer or answers to the following questions:**

(1 pt)

- How do we connect a DVD ROM drive and a hard disk drive (HDD) on a same IDE ribbon cable?
 - DVD-ROM Primary Master ; HD Primary Slave.
 - DVD-ROM Secondary Master ; HD Secondary Slave.
 - HDD Primary Master ; DVD-ROM Primary Slave.
 - HDD Secondary Master ; DVD-ROM Secondary Slave.
- What are the characteristics of Ink jet thermal printers? (3 answers are correct).
 - They have a piezo-electric element.
 - Each nozzle is surrounded by a heating element.
 - Their operation is similar to laser printers.
 - The life cycle of the print head is limited.
 - They consume a lot of ink.
 - They give a very poor print quality.

Part B-1 : Introduction to Operating Systems

Choose the right answer(s) :

(7½ pts)

- 1) **Are developed to satisfy the needs of the users:**
 - a) Basic software.
 - b) System software.
 - c) Application software.
 - d) Registers.
- 2) **Can be of type « Open Source »:**
 - a) File.
 - b) Memory.
 - c) Operating System.
 - d) Program.
- 3) **Is not an operating system function:**
 - a) Memory Management.
 - b) Database Management.
 - c) Address Management.
 - d) File Management.
- 4) **Can be Sequential or Direct :**
 - a) Address.
 - b) Partitioning.
 - c) Formatting.
 - d) Organization.
- 5) **It's possible to limit used disc space by each user with file system:**
 - a) FAT.
 - b) NTFS .
 - c) FAT et NTFS.
 - d) It is not possible to limit used disc space by each user.
- 6) **Data Storage in a file is :**
 - a) For long term.
 - b) For short term.
 - c) Temporary.
 - d) Permanent.
- 7) **Formatting types of a Hard Disc:**
 - a) Permanent.
 - b) Physical.
 - c) Logical.
 - d) For long term.
- 8) **In Sequential Access Method:**
 - a) Accessing elements is in random order.
 - b) Records are read one after the other.
 - c) Access is made via a key.
 - d) This method is suitable for magnetic tapes.
- 9) **Is a Windows file system:**
 - a) FAT32.
 - b) FAT42.
 - c) LINUX.
 - d) EXT1.
- 10) **File name is composed of:**
 - a) Only the Name.
 - b) Name and extension.
 - c) Name, extension and access path.
- 11) **In multiprogramming:**
 - a) Central memory is misused.
 - b) Only one program is in memory at one time.
 - c) Central memory is well used.
 - d) One or many programs can be in the memory at one time.
- 12) **In pagination we find:**
 - a) One table of pages for all process.
 - b) One table of pages for each process.
 - c) Each process has many tables of pages.
 - d) The table of pages contains many processes.
- 13) **Compressing memory permits to group unused spaces in one large size partition:**
 - a) True
 - b) False
- 14) **SWAPPING is the movement of processes between real and virtual memory:**
 - a) True
 - b) False
- 15) **DOS Operating System runs in text mode:**
 - a) True
 - b) False

Part B-2: Introduction to the Operating System -Windows.

Choose the right answer(s) :

(6 pts)

- 1) Which of the following options is found in Control Panel:
 - a) Arrange icons.
 - b) Folder options.
 - c) Tile windows.
 - d) Add or remove programs.
- 2) To restore files to a previous state, we use:
 - a) Windows backup.
 - b) Windows update.
 - c) System restore.
 - d) System security.
- 3) List a summary of drivers connected to a computer
 - a) Windows explorer.
 - b) My Computer.
 - c) My network Places.
 - d) Dropbox.
- 4) A printer:
 - a) Can be used by one computer.
 - b) Can be shared between many computers.
 - c) Cannot be used by many computers.
- 5) Defragmentation:
 - a) Increase Reading Speed.
 - b) Decrease Reading Speed.
 - c) Reduce fragmentation.
 - d) Increase fragmentation.
- 6) Drivers are provided:
 - a) By the operating system.
 - b) Manufactures of peripherals.
 - c) Can be downloaded.
 - d) Are in Memory.
- 7) Allows to plan a task in order to be executed at a certain moment
 - a) Winzip.
 - b) Scheduled tasks.
 - c) Windows Explorer.
 - d) Accessibility options.
- 8) Disk cleanup:
 - a) Liberates space on Hard Disc.
 - b) Suggests to the user to delete unused files.
 - c) Deletes files without user permission.
 - d) Is a saving utility.
- 9) Erasing Folder is:
 - a) Changing its location.
 - b) Deleting it.
 - c) Replacing it.
 - d) Copying it.
- 10) The Taskbar allows access to Open Windows:
 - a) True
 - b) False
- 11) A file's shortcut increases the number of actions to access a file :
 - a) True
 - b) False
- 12) Recycle bin stores the deleted files before deleting them definitively from the machine:
 - a) True
 - b) False