

المعدل : (12)

المدة : ساعتان

Treat the two following parts:

Part A : Computers Assembly:

- 1) What is the role of a chipset in a motherboard? (1 pt)
- 2) a- What is the CMOS? (1 pt)
- b- How to reset Bios settings (Clear CMOS)? (1 pt)
- 3) **Match the following:** (2 pts)

1. Manages the exchange of data between the processor, the RAM and the graphic card	a) Northbridge.
2. Volatile memory	b) The hard disk.
3. The Southbridge chip	c) IRQ.
4. The component which ensures the display on the screen	d) Contains the instruction (operation + operand) being executed.
5. Is a computer resource	e) RAM.
6. The instruction register	f) Contains the address of the next instruction to be executed.
7. The ordinal counter	g) The graphic card.
8. The component where data is stored (photos, video, etc.)	h) All inputs/outputs functions of a computer, such as USB, audio, serial, BIOS system.

- 4) **Specify the name of the following components?**

(2 pts)

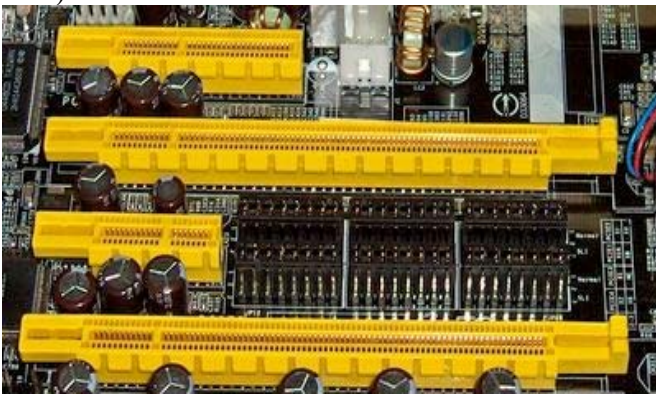
a)



b)



c)



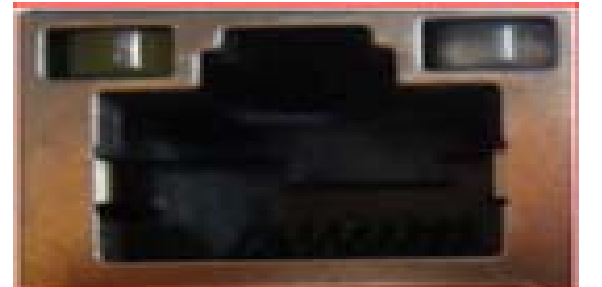
d)



e)



f)



g)



h)



Part B- 1: Introduction to operating systems

Choose the right answer :

(5 pts)

<p>1. What is the use of a file system?</p> <p>a. It allows to store information and to organize it in the cache memory.</p> <p>b. It allows to store information and to organize it in the RAM.</p> <p>c. It allows to store information and to organize it in the secondary memories.</p> <p>d. It allows to store information and to organize it in registers.</p> <p>2. The primary purpose of an operating system is:</p> <p>a. To make the use of the computer hardware more efficient.</p> <p>b. To allow people to use the computer.</p> <p>c. To allow system programmers to store their files.</p> <p>d. To make computers easier to use.</p> <p>3. Multiprogramming system:</p> <p>a. Is easier to develop than mono programming system.</p> <p>b. Execute each job faster.</p> <p>c. Execute more tasks at the same time.</p> <p>d. Is used only on large mainframe computers.</p> <p>4. Swapping :</p> <p>a. Works best with many small partitions.</p> <p>b. Allows many programs to use memory simultaneously.</p> <p>c. Allows each program, by its turn to use the memory.</p> <p>d. Does not work with overlaying.</p> <p>5. The driver is necessary to operate :</p> <p>a. The central memory.</p> <p>b. The peripheral.</p> <p>c. The operating system.</p> <p>d. The application software.</p>	<p>6. The pagination divides the space program in the virtual memory into :</p> <p>a. Several parts in the same page.</p> <p>b. Sub-programs of different sizes.</p> <p>c. Several pages of different sizes.</p> <p>d. Several pages of the same size.</p> <p>7. In the case of preemptive multiprogramming, if a process P1 is running and a process P2 with higher priority than P1 must be executed. What happens?</p> <p>a. The execution of P1 stops and the execution of P2 starts.</p> <p>b. P2 must wait until the execution of P1 terminates.</p> <p>c. This case cannot occur.</p> <p>d. None of the answers.</p> <p>8. The set of programs that links the hardware resources, the user and the applications of a computer is:</p> <p>a. The specifications.</p> <p>b. The operating system.</p> <p>c. The machine language.</p> <p>d. The source code.</p> <p>e. The proprietary software.</p> <p>9. What notation is correct:</p> <p>a. Most 32-bit applications can run with a 64-bit operating system.</p> <p>b. All 32-bit applications can run with a 64-bit operating system.</p> <p>c. Most 64-bit applications can run with a 32-bit operating system.</p> <p>d. b and c.</p> <p>10. The CLI is :</p> <p>a. Command Link Interface.</p> <p>b. Control Line Interface.</p> <p>c. Client Interface.</p> <p>d. Command Line Interface.</p>
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Part B-2 : Introduction to Windows operating system:

Choose the right answer :

(8 pts)

- 1. CHKDSK command is used to:**
 - a) Analyze the hard disk error.
 - b) Diagnose the hard disk error.
 - c) Report the status of files on disk.
 - d) All of the above.
- 2. Restore Point is used to:**
 - a) Create a settings image of the current computer, and then, if the computer crashes, it will return to a previous configuration.
 - b) Provide immediate protection as new threats develop.
 - c) Set the commands to be executed at a certain time only once, or to repeat on certain days or dates.
 - d) Back up the hard drives and the system files.
- 3. The _____ is a temporary storage area that holds content that you copy to it with the Cut or Copy command.**
 - a) Desktop.
 - b) Control Panel.
 - c) Clipboard.
 - d) Recycle Bin.
- 4. To create a shortcut on the desktop, _____ the file to the desktop.**
 - a) Ctrl+drag.
 - b) Shift+drag.
 - c) Right-drag.
 - d) Alt+drag.

5. **To make a program constantly available on the left section of the taskbar:**
 - a) Attach it.
 - b) Pin it.
 - c) Stick it.
 - d) Unhide it.
6. **Which utility would be the most appropriate to stop an unresponsive program?**
 - a) Device Manager.
 - b) System Information.
 - c) Task Manager.
 - d) Windows Experience Index
7. **To open the System Configuration Utility, we click the Start button and type :**
 - a) Device.
 - b) System information.
 - c) Msconfig.
 - d) Restore.
8. **Which command places the PC in a low power consumption mode without shutting it down, and keep the RAM powered on?**
 - a) Restart.
 - b) Hibernate.
 - c) Sleep.
 - d) Lock.
9. **What is the most reliable backup method?**
 - a) Copy the files to another folder.
 - b) Compress the files.
 - c) Copy the files to a remote disk.
 - d) Copy the files to the second virtual disk of my computer.
10. **Which command divides the area of a blank disk into sectors and assigns a unique address to each sector:**
 - a) Ver.
 - b) Format.
 - c) Fat.
 - d) Chkdsk.
11. **Which mode loads the minimal set of drivers when starting Windows?**
 - a) Safe Mode.
 - b) Normal Mode.
 - c) VGA Mode.
 - d) Network Support Mode.
12. **A software that helps protecting your computer from pop-up ads, slow performance and security threats caused by spyware and other unwanted software:**
 - a) Windows Firewall.
 - b) Windows Defender.
 - c) Windows Authentication.
 - d) None of the above.
13. **The ____ list contains programs that accomplish a variety of tasks commonly required on a computer. Most of these programs are installed with the Windows 7 operating system, such as Calculator, Snipping Tool and WordPad.**
 - a) Helper Programs.
 - b) Necessities.
 - c) Utilities.
 - d) Accessories.
14. **The refresh rate of the screen is expressed in:**
 - a) Bit.
 - b) Hertz.
 - c) Inch.
 - d) Points.
15. **When you Right click on Local Disk → Properties, you will find the Quota option. What is the use of this option?**
 - a) To increase hard drive space.
 - b) To know the free space inside the hard drive.
 - c) To limit the disk space used by each user.
 - d) None of the above.
16. **To create restore points, Right click on Computer→ Properties and then on:**
 - a) "Backup".
 - b) "System protection".
 - c) "System image".
 - d) None of the above.