

Treat the two following parts:**Part A : Computers Assembly**

- 1) Describe the differences between a RAM and ROM memories. (2 pts)
- 2) a) What is the measure unit of a microprocessor (CPU) speed? (½ pt)
b) What is the measure unit of cache memory? (½ pt)
- 3) What do you understand by slave hard disk and master hard disk? Can you fix them together on computer? (1 ½ pts)
- 4) Draw a figure that illustrates the internal structure of a computer (including for example the devices: power supply, motherboard, CPU, memory, vga card, sound card, hard disk, CD-ROM) and the connections between its devices. (2 ½ pts)

Part B-1 : Introduction to operating systems**Choose the right (s) answer (s) : (5 pts)**

1. **Windows is not an operating system:**
a) Yes b) No
2. **Computers cannot work without an operating system:**
a) Yes b) No
3. **Operating systems are responsible to manage:**
a) Virus b) Memory c) Files d) Users
4. **We can install more than one operating system on a same machine:**
a) Yes b) No
5. **Unix operating system is a:**
a) Mono-user system b) Multi-users system c) Closed system d) Multi-tasking system
6. **Operating systems deliver some services like:**
a) Backup b) Restore c) Calendar d) CPU scheduling
7. **Operating system memory space is used by the:**
a) User programs b) System programs c) User and system programs d) Application programs
8. **Microsoft Excel is a:**
a) Software application b) Operating system c) Anti-virus program d) database
9. **Most of operating systems are written by:**
a) Arabic language b) English language c) C language d) SQL language
10. **One of the file protection methods used by an operating system is:**
a) Internal redundancy b) Scan viruses c) Mono-using d) Cleaning computer

Part B-2 : Introduction to Windows operating system**Choose the right (s) answer (s) : (8 pts)**

1. **A folder can contains:**
a) Only files b) Only directories c) Files and directories d) Files and 1 directory
2. **Control panel contains:**
a) Computer management b) Add/remove programs c) Anti-virus programs d) Sound and audio devices
3. **Device manager is responsible to manage:**
a) Files b) Input devices c) Output devices d) Software applications
4. **Windows allows you to create:**
a) One user b) Two users c) Many users d) Five users
5. **To display a contextual menu, click on the:**
a) Mouse right button b) Mouse left button c) Mouse right or left buttons d) don't click
6. **Customize the desktop:**
a) Add or remove Icons b) Remove Icons only c) Add Icons only d) Change the background
7. **Deleted files are temporary stored in:**
a) Documents b) Recycle Bin c) Temporary folder d) My pictures
8. **You can duplicate a file in:**
a) Small file b) Same folder c) Big file d) Different folders
9. **Disk cleanup operation is an action to:**
a) Format the disk b) Delete temporary files c) Delete unused files d) Format the file
10. **Windows is launched from the:**
a) User sector b) Boot sector c) Secondary sector d) Application sector
11. **Screen resolution is measured in:**
a) Characters b) Points c) Pixels d) Bytes
12. **Desktop background can be updated using:**
a) Screen management b) Display properties c) Screen resolution d) Change color
13. **Move a folder:**
a) Change its location b) Delete it c) Replace it d) Copy it
14. **'Send to' is like:**
a) Copy b) Move c) Cut d) Paste
15. **'Arrange icons' means:**
a) Rename Icons b) Sort icons c) Move icons d) Resize icons
16. **'Automatic Update' updates:**
a) The operating system b) The applications c) The files d) The applications and files