**Question 1 [5.0 marks]: Select ONLY the best answer from the suggested multiple choices:**

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| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| **1.** | **\_\_\_\_\_\_\_\_ is a program that assists the user in maintaining a computer's magnetic disks to ensure optimal performance** |  | **2.** | **\_\_\_\_\_\_\_\_ is a program that accepts requests for action from the operating system and causes a device, such as a printer, to execute the requests** |
| a. | Mass Storage Management |  | a. | Taskbar |
| b. | Storage Management |  | b. | Driver |
| c. | File Management |  | c. | Utility |
| d. | File Compression  |  | d. | Icon |
|  |  |  |  |  |
| **3.** | **\_\_\_\_\_\_\_ is an operating system function that controls the order and time in which programs are run** |  | **4.** | **\_\_\_\_\_\_\_ is an operating system function that manages the placement of programs and data in memory.** |
| a | Job Scheduling |  | a | Task Management |
| b | File Management |  | b | Device Management |
| c | Task Management |  | c | Job Management |
| d | I/O Management |  | d | Memory Management |
|  |  |  |  |  |
| **5.** | **\_\_\_\_\_\_\_ implies that a computer is simultaneously running two or more programs (task) at the same time** |  | **6.** | **\_\_\_\_\_\_\_\_\_\_\_ is used to allows execution of processes not completely in memory** |
| a. | Client |  | a. | Bootstrap program |
| b. | Multitasking |  | b. | Main memory |
| c. | Cursor |  | c. | Virtual memory |
| d. | Mouse |  | d. | Dual mode |
|  |  |  |  |  |
| **7.** | **Bootstrap program is stored in \_\_\_\_\_\_\_\_\_\_\_.** |  | **8.** | **The \_\_\_\_\_\_\_\_\_\_\_ routine determines the nature of the interrupt and performs whatever actions are needed.** |
| a. | magnetic disks |  | a. | interrupt handler |
| b. | Read Only Memory (ROM) |  | b. | device controller |
| c. | Random Access memory (RAM) |  | c. | program handler |
| d. | tap drivers |  | d. | interrupt signal |
|  |  |  |  |  |
| 9. | **The processor can transit from kernel mode to user mode, if \_\_\_\_\_\_\_\_\_** |  | **10.** | **\_\_\_\_\_\_\_\_\_\_\_specifies the location of next instruction to execute.** |
| a. | the user executes a privileged instruction |  | a. | Instruction register |
| b. | the user executes a trap instruction |  | b. | Program counter |
| c. | I/O is completed |  | c. | Cache coherency |
| d. | None of the above |  | d. | None of the above |