# **Chapter 7 Operating system (textbook)**

# Explain the following terms in Vietnamese

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| **No** | **English Term** | **Vietnamese Term** | **Explain terms in English** | **Explain terms in Vietnamese** |
| 1 | authentication | Xác thực | Verification of the sender of a message. | Xác minh người gửi tin nhắn. |
| 2 | job scheduler | lịch trình công việc | A scheduler that selects a job for processing from a queue of jobs waiting to be moved to memory |  |
| 3 | single-user | Đơn người dùng | an operating system that is designed to be used by only one user at a time |  |
| 4 | kernel |  | The main part of an operating system |  |
| 5 | software |  | The application and system programs necessary for computer hardware to accomplish a task |  |
| 6 | Linux |  | An operating system developed by Linus Torvalds to make UNIX more efficient when run on an Intel microprocessor. |  |
| 7 | starvation |  | A problem in the operation of an operating system in which processes cannot get access to the resources they need. |  |
| 8 | UNIX |  | A popular operating system among computer programmers and computer scientists |  |
| 9 | multiprogramming |  | A technique that allows more than one program to reside in memory while being processed. |  |
| 10 | time sharing |  | An operating system concept in which more than one user has access to a computer at the same time |  |
| 11 | monoprogramming |  | The technique that allows only one program to be in memory at a time |  |
| 12 | Operating System (MS-DOS) |  | The software that controls the computing environment and provides an interface to the user |  |
| 13 | terminated state |  |  |  |
| 14 | memory management |  | The component of the operating system that controls the use of main memory |  |
| 15 | state diagram |  | A diagram that shows the different states of a process |  |
| 16 | Microsoft Disk |  | The operating system based on DOS and developed by Microsoft |  |
| 17 | mutual exclusion |  | A condition imposed by an operating system in which only one process can hold a resource |  |
| 18 | user interface |  | A program that accepts requests from users (processes) and interprets them for the rest of the operating system |  |
| 19 | no preemption |  | A condition in which the operating system cannot temporarily allocate a resource |  |
| 20 | parallel system |  | An operating system with multiple CPUs on the same machine. |  |
| 21 | shell |  |  |  |
| 22 | job |  |  |  |
| 23 | scheduling |  |  |  |
| 24 | hold state |  |  |  |
| 25 | scheduler |  |  |  |
| 26 | hardware abstraction layer (HAL) |  |  |  |
| 27 | running state |  |  |  |
| 28 | batch operating system |  |  |  |
| 29 | graphical user interface (GUI) |  |  |  |
| 30 | resource holding |  |  |  |
| 31 | frame |  |  |  |
| 32 | reliability |  |  |  |
| 33 | emacs |  |  |  |
| 34 | real-time system |  |  |  |
| 35 | distributed system |  |  |  |
| 36 | ready state |  |  |  |
| 37 | device manager |  |  |  |
| 38 | queue |  |  |  |
| 39 | demand segmentation |  |  |  |
| 40 | partitioning |  |  |  |
| 41 | program |  |  |  |
| 42 | demand paging and segmentation |  |  |  |
| 43 | process manager |  |  |  |
| 44 | demand paging |  |  |  |
| 45 | process |  |  |  |
| 46 | deadlock |  |  |  |
| 47 | portability process scheduler |  |  |  |
| 48 | circular waiting |  |  |  |
| 49 | portability |  |  |  |
| 51 | bootstrap |  |  |  |
| 52 | pico |  |  |  |
| 53 | waiting state |  |  |  |
| 54 | Windows |  |  |  |
| 55 | utility |  |  |  |
| 56 | virtual memory |  |  |  |