

Operating Systems MidTerm Exam

Student Name	
Duration	1h20

Instructions

Fill all questions from 1 to 20 (Generic Section)

Fill all questions from 21 to 30 (Linux Section)

Fill all questions from 31 to 40 (MacOS Section) **OR** from 41 to 50 (Windows Section)

1 - What is the relationship between threads and processes?

☐ A processes is a container for threads

☐ Threads is a container for processes

☐ Threads and processes are not related

☐ None of the above

2 - Threads are cheaper to context switch than processes

☐ True

☐ False

3 - Main memory is also known as _____.

☐ Single-user memory

☐ Finite memory

☐ Random access memory

☐ Virtual memory

4 - In demand paging, when an excessive number of pages are moved back and forth between main memory and secondary storage, it is called _____.

☐ Paging

☐ Faulting

☐ Trashing

☐ Swapping

5 - The efficiency of a batch system is measured in _____, which is the number of jobs completed in a given amount of time.

☐ Processes

☐ Throughput

☐ Threads

☐ Turnaround time

6 - Threads are cheaper to create than processes

☐ True

☐ False

7 - The Process Scheduler assigns the CPU to execute the processes for those jobs placed on the _____ queue by the Job Scheduler.

☐ WAITING

☐ PROCESS

☐ NEXT

☐ READY

8 - A(n) _____ is created by a process, and it can be scheduled and executed independently of its parent process.

☐ Thread

☐ Instruction Set

☐ Program

☐ Mini-Process

9 - _____ are special files with listings of filenames and their attributes.

☐ Database

☐ Programs

☐ Directories

☐ Data Files

10 - Cooperating processes need Inter-Process communication (IPC)

☐ True

☐ False

11 - _____ of memory is performed by the operating system to reclaim fragmented sections of the memory space.

☐ Deallocation

☐ Compaction

☐ Redirection

☐ Reallocation

12 – Inter-Process Communication (IPC) Mechanisms/techniques are:

☐ Signal, Pipes and Threads

☐ Pipes, signals and message passing

☐ Message Passing, Signals and Threads

☐ Threads, pipes and message passing

13 - The major objective of process cooperation include:

☐ Information Sharing

☐ Computation Speedup

☐ Modularity

☐ All of the above

14 - Signals are used in UNIX systems to notify a process that a particular event has occurred.

☐ True

☐ False

15 - Type of Multi-Threading Levels:

☐ User-Level Threads (ULT)

☐ Hybrid ULT/KLT Approach

☐ Kernel-Level Threads (KLT)

☐ All of the above

16 – What is A Three-state Process Model ?

☐ Running-Blocked-Waiting

☐ Ready-Running-Terminated

☐ Ready-Running-Waiting

☐ None of the above

17 - Example of Threads Implementation:

☐ Windows Threads

☐ POSIX Threads

☐ Java Threads

☐ All of the above

18 - PTE means Page Thread Entry?

☐ True

☐ False

19 - What does it mean MMU?

☐ Memory Management Usage

☐ Memory Management Unit

☐ Memory Management User

☐ None of the above

20 – Which types of semaphores ?

☐ Full

☐ Empty

☐ Mutex

☐ All of the above

21 - Command to list files:

☐ ls

☐ grep

☐ list

☐ find

22 - The command to help in Linux is “mann”:

☐ True

☐ False

23 - How can you view what file systems are mounted in Linux ?

☐ df -h

☐ ls

☐ tar

☐ mount

24 - How can you archive in Linux ?

☐ gzip

☐ zip

☐ compress

☐ tar

25 - How can you compress in Linux ?

☐ zip

☐ compress

☐ gzip

☐ All of the above

26 - Which command could you use to show the list of files in Tree format?

☐ ps -e f

☐ pstree

☐ ps -ef

☐ ps aux

27 - Which command could you use to delete a directory?

☐ rmdir

☐ rm

☐ del

☐ rm -rf

28 - What does it mean the next file permission “644” ?

☐ rwxrwxrwx

☐ __x__x__x

☐ rw_r__r__

☐ rw_rw_rw_

29 - Which command must you use to search file in your drive?

☐ ls

☐ find

☐ help

☐ search

30 - Which command must you use to see the information by page?

☐ cat

☐ page

☐ more

☐ head

31 - Command to list files:

☐ ls

☐ grep

☐ list

☐ find

32 - The next command “ps –e f” is working on MacOS:

☐ True

☐ False

33 - Which command must you use to check CPU Info?

☐ mount

☐ ls

☐ tar

☐ sysctl

34 - Which tool or command could you use to edit a file?

☐ vi

☐ notes

☐ textedit

☐ All of the above

M
A
C
O
S

35 - How can you compress in MacOS?

☐ zip

☐ compress

☐ gzip

☐ All of the above

36 - Which tool or command could you use to show process?

☐ top

☐ activity monitor

☐ resmon

☐ monitor

37 - Which command could you use to show the list of files in Tree format?

☐ ps

☐ pstree

☐ ps -ef

☐ ps aux

38 - Which command could you use to delete a file?

☐ rmdir

☐ rm

☐ del

☐ delete

39 - Which command must you use to search file in your drive?

☐ ls

☐ find

☐ help

☐ search

40 - Which command must you use to check the directory where you are in the terminal screen?

☐ cat

☐ pwd

☐ more

☐ ls

41 - Command to list files:

☐ ls

☐ dir

☐ list

☐ find

42 - The next command “mountvol” is working in Windows:

☐ True

☐ False

43 - Which tool or command could you use to show process?

☐ top

☐ task manager

☐ resmon

☐ monitor

44 - How can you archive in Linux ?

☐ gzip

☐ zip

☐ 7-zip

☐ All of the above

45 - Which command/tool must you use to list process?

☐ ps

☐ tasklist

☐ ls

☐ list

46 - Which tool could you use to show the processes list?

☐ Process Monitor

☐ Process Explorer

☐ Task Manager

☐ Activity Monitor

47 - Which command could you use to delete a directory?

☐ rmdir

☐ rm

☐ del

☐ delete

48 - The command to compare files is “fc”

☐ TRUE

☐ FALSE

49 - Which command must you use to search file in your drive?

☐ ls

☐ find

☐ dir

☐ search

50 - To create a new file you can use the command “type”

☐ TRUE

☐ FALSE