Started on	Saturday, 15 July 2023, 1:12 PM
State	Finished
Completed on	Saturday, 15 July 2023, 1:40 PM
Time taken	28 mins 4 secs
Grade	**7.50** out of 10.00 (**75%**)

Question **1**

Complete

Mark 0.20 out of 0.20

Rearrange the layers in I/O software starting at the bottom

1. User-level I/O software

2. Device drivers

3. Interrupt handlers

4. Hardware

5. Device-independent OS software

○ a.   15234

○ b.   12345

○ c.   54321

◉ d.   43251

The correct answer is: 43251

Question **2**

Complete

Mark 0.20 out of 0.20

Action any operating system will execute a new process

- ○ a.   All the of them
- ◉ b.   Create immeditate PCB blocks for process.
- ○ c.   Provide immeditate CPU for process.
- ○ d.   Delivery the resources must be process.

The correct answer is: Create immeditate PCB blocks for process.

Question **3**

Complete

Mark 0.20 out of 0.20

In file Ext2,folder /root is managed

○ a. Inode number 1 and Inode number 2.

○ b. Inode number 1.

◉ c. Inode number 2.

○ d. None of the them

The correct answer is: Inode number 2.

Question **4**

Complete

Mark 0.20 out of 0.20

In language Programing C: What is &a ?

- a. None the of them
- b. The current address of the variable a in RAM
- c. Address a variable in the memory space of the process
- d. The actual address of the variable a

The correct answer is: Address a variable in the memory space of the process

Question **5**

Complete

Mark 0.20 out of 0.20

In Linux operating system to stop command ping use key.

○ a.   Ctrl+D.

◉ b.   Ctrl+C.

○ c.   Ctrl+Break.

○ d.   None the of them

The correct answer is: Ctrl+C.

Question **6**

Complete

Mark 0.20 out of 0.20

In Linux the command ps -aux gives the equivalent of the following in MS-Windows:

- ⦿ a.   Open program Task Manager
- ○ b.   Start/Shutdown.
- ○ c.   Start/Run input cmd.
- ○ d.   None the of them

The correct answer is: Open program Task Manager

Question **7**

Complete

Mark 0.00 out of 0.20

In system file Ext2 basic information of a partition will be saved in section.

- ○ a.   None the of them
- ◉ b.   Super Block and Group Descriptor
- ○ c.   Super Block.
- ○ d.   Group Descriptor.

The correct answer is: Super Block.

Question **8**

Complete

Mark 0.20 out of 0.20

Main priority of time-sharing system so with multiprogrammed system

- a.   Response time is smaller
- b.   Reduces the burst time of the process
- c.   Increase the CPU's performance
- d.   The cost of managing smaller processes

The correct answer is: Response time is smaller

Question **9**

Complete

Mark 0.20 out of 0.20

Many computers and some operating systems call subdirectories is

○ a. Volumes

◉ b. Files

○ c. Folders

○ d. Databases

The correct answer is: Files

Question **10**

Complete

Mark 0.20 out of 0.20

Operating system design as microkernel has all features after, but exept

- a. Expand funtion is easy
- b. Interface between client and service provider is done through the shared memory
- c. Multi services are currently in the user space
- d. Only the new basic function is execution in the kernel

The correct answer is: Interface between client and service provider is done through the shared memory

Question **11**

Complete

Mark 0.20 out of 0.20

Operating system is a software

- ○ a.   Control hardware device
- ○ b.   Always must be available for computer activity
- ◉ c.   Management and distribution resource for the applications
- ○ d.   All the of them

The correct answer is: Management and distribution resource for the applications

Question **12**

Complete

Mark 0.00 out of 0.20

Overlay technique applies when:

- ○ a. The program is smaller than the memory area.
- ○ b. The program is larger than the memory area.
- ○ c. None of the them
- ○ d. No memory available to run the program.

The correct answer is: The program is larger than the memory area.

Question **13**

Complete

Mark 0.00 out of 0.20

Passing information from the application program to the system can be executable with the way saving

- ⦿ a. Stack
- ○ b. Primary memory
- ○ c. All the of them
- ○ d. Registers

The correct answer is: All the of them

Question **14**

Complete

Mark 0.20 out of 0.20

In many systems a single disk can hold files from many users at

- ◉ a.   the same time
- ○ b.   the moment
- ○ c.   once

The correct answer is:
the same time

Question **15**

Complete

Mark 0.20 out of 0.20

The other kind of multiplexing is

- a. multiplexing
- b. space multiplexing
- c. space

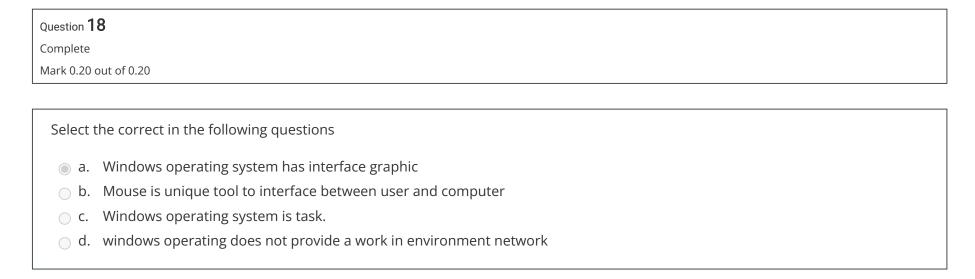The correct answer is:
space multiplexing

Question **16**

Complete

Mark 0.20 out of 0.20

Allocating………. .and keeping track of who is using which disk blocks is a typical operating system resource management task.

○ a.   disk space

○ b.   ram

○ c.   memory

The correct answer is:
disk space

Question **17**

Complete

Mark 0.00 out of 0.20

Queues for queue processes for input/output are called:

- ○ a.   All the of them
- ○ b.   Busy-Waitting buffer.
- ○ c.   Ready queue.
- ◉ d.   Waitting queue.

The correct answer is: Ready queue.

Question **18**

Complete

Mark 0.20 out of 0.20

Select the correct in the following questions

- a. Windows operating system has interface graphic
- b. Mouse is unique tool to interface between user and computer
- c. Windows operating system is task.
- d. windows operating does not provide a work in environment network

The correct answer is: Windows operating system has interface graphic

Question **19**

Complete

Mark 0.20 out of 0.20

Select the features that is true with the concept of multitasking operating system in the following characteristics:

- ⚪ a. Management system work distribution
- 🔘 b. System handling process CPU by type time-sharing
- ⚪ c. Management system work multi- user
- ⚪ d. Process management system by lot

The correct answer is: System handling process CPU by type time-sharing

Question **20**

Complete

Mark 0.00 out of 0.20

Statement the following of the operating system, expression is invalid?

- ○ a. Provide interface between users and computer.
- ⦿ b. All the of them
- ○ c. Management interface with other computer on network.
- ○ d. Management information on external memory

The correct answer is: Management interface with other computer on network.

Question **21**

Complete

Mark 0.20 out of 0.20

Technician Input/output below, CPU is least busy

- ○ a.　INterrup.
- ◉ b.　DMA.
- ○ c.　All the of them
- ○ d.　Busy_waitting.

The correct answer is: DMA.

Question **22**

Complete

Mark 0.20 out of 0.20

The program that users interact with, usually called the shell when it is text based and the GUI (Graphical User Interface)

Select one:
- ◉ True
- ○ False

The correct answer is 'True'.

Question **23**

Complete

Mark 0.00 out of 0.20

Both are programs running on the Windows operating system and use the abstractions Windows provides, but they offer very different user interfaces. Similarly, a Linux user running Gnome or KDE sees a very different interface than a Linux user working directly on top of the underlying (text-oriented) X Window System, but the underlying operating system abstractions are not the same in both cases.

Select one:

⦿ True

○ False

The correct answer is 'False'.

Question **24**

Complete

Mark 0.20 out of 0.20

The Operating System as a Resource Manager

Select one:

⦿ True

○ False

The correct answer is 'True'.

Question **25**

Complete

Mark 0.20 out of 0.20

Modem operating systems does not allow multiple programs to run at the same time.

Select one:

○ True

◉ False

The correct answer is 'False'.

Question **26**

Complete

Mark 0.20 out of 0.20

The hardware consists of chips, boards, disks, a keyboard, a monitor, and similar physical objects

Select one:

◉ True

○ False

The correct answer is 'True'.

Question **27**

Complete

Mark 0.20 out of 0.20

The operating system is the most fundamental piece of software and runs in kernel mode (also called supervisor mode)

Select one:

◉ True

◯ False

The correct answer is 'True'.

Question **28**

Complete

Mark 0.20 out of 0.20

Everything running in kernel mode is clearly part of the operating system

Select one:

◉ True

◯ False

The correct answer is 'True'.

Question **29**

Complete

Mark 0.00 out of 0.20

Find question is wrong in following questions

- ○ a.   The two directory name must be in a different parent directory
- ○ b.   The directory can contain the same filename with the directory.
- ○ c.   To only a file in the directory that the directory to get the directory name that is part of the namespace and extension extension extension.
- ○ d.   In the same one directory to save the 2 file same as the name, but has different extensions

---

The correct answer is: To only a file in the directory that the directory to get the directory name that is part of the namespace and extension extension extension.

Question **30**

Complete

Mark 0.20 out of 0.20

The priority of the processes for know:

- ○ a. All the of them
- ◉ b. The importance of process.
- ○ c. Process use CPU much or little.
- ○ d. Process use many sector or a few sector.

The correct answer is: The importance of process.

Question **31**

Complete

Mark 0.00 out of 0.20

What is not the technique of implementation for Virtual Memory?

○ a.   Segmentation

◉ b.   All of the other choices

○ c.   Partition

○ d.   Paging

The correct answer is: Partition

Question **32**

Complete

Mark 0.20 out of 0.20

What is process?

- ○ a.   All the of them
- ○ b.   A load program in memory
- ◉ c.   A load program in memory and CPU is executing
- ○ d.   A program save on disk.

The correct answer is: A load program in memory and CPU is executing

Question **33**

Complete

Mark 0.20 out of 0.20

What is register?

- a.   A section of internal memory
- b.   A section of external memory
- ⦿ c.   The partition of the CPU used for writing the temporary commands and the following data
- d.   None of section CPU

The correct answer is: The partition of the CPU used for writing the temporary commands and the following data

Question **34**

Complete

Mark 0.20 out of 0.20

What Unix and Linux is ?

- ⊙ a. Operating system multitasking -multi-users.
- ○ b. Operating system multitasking - a user.
- ○ c. Operating system is task
- ○ d. Medium is the system is multiple action for the tasks.

The correct answer is: Operating system multitasking -multi-users.

Question **35**

Complete

Mark 0.00 out of 0.20

When a process is in or out from a Critical Section, must:

- ○ a. Ask operating system.
- ○ b. None of the them
- ⦿ c. Float flag when in and when out.
- ○ d. Ask operating system and Float flag when in and when out.

The correct answer is: Ask operating system and Float flag when in and when out.

Question **36**

Complete

Mark 0.20 out of 0.20

Which of the following instructions should be allowed only in kernel mode?

- a. AND of two numbers
- b. Read the time-of-day clock
- c. Disable all interrupts 1
- d. ADD of two numbers

The correct answer is: Disable all interrupts 1

Question **37**

Complete

Mark 0.00 out of 0.20

Which of the following process state transitions is illegal?

- a. Running -> Blocked (waiting)
- b. Ready -> Blocked (waiting)
- c. Running -> ready
- d. Blocked (waiting) -> ready

The correct answer is: Ready -> Blocked (waiting)

Question **38**

Complete

Mark 0.20 out of 0.20

With a system multi-program memory will:

- ○ a. The operating system and a process.
- ○ b. All the of them
- ◉ c. The operating system and multi- process.
- ○ d. The operating system is loaded.

The correct answer is: The operating system and multi- process.

Question **39**

Complete

Mark 0.20 out of 0.20

The BLOCKED state of a process is:

○ a. Waiting to input/output and Waiting for an event that has not happened yet

○ b. None the of them

○ c. Waiting for an event that has not happened yet

○ d. Waiting to input/output.

The correct answer is: Waiting to input/output and Waiting for an event that has not happened yet
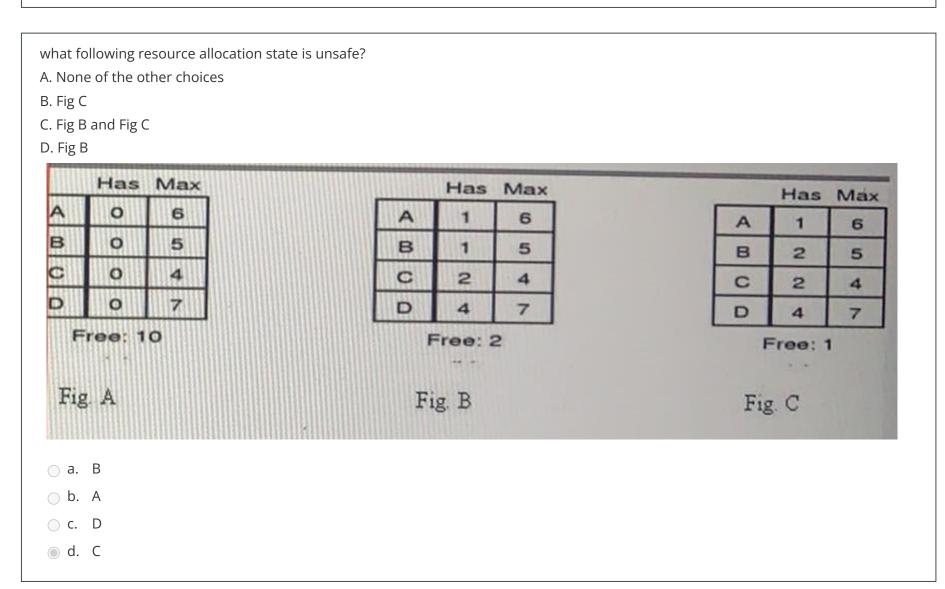
Question **40**

Complete

Mark 0.20 out of 0.20

The permanent blocking of a set of processes that compete for system resources is called

- ○ a. Deadlock
- ○ b. All of the them
- ○ c. Starvation
- ○ d. Prioritization

The correct answer is: Deadlock

Question **41**

Complete

Mark 0.00 out of 0.20

what following resource allocation state is unsafe?

A. None of the other choices

B. Fig C

C. Fig B and Fig C

D. Fig B

	Has	Max
A	0	6
B	0	5
C	0	4
D	0	7

Free: 10

Fig. A

	Has	Max
A	1	6
B	1	5
C	2	4
D	4	7

Free: 2

Fig. B

	Has	Max
A	1	6
B	2	5
C	2	4
D	4	7

Free: 1

Fig. C

○ a. B

○ b. A

○ c. D

◉ d. C

The correct answer is:
B

Question **42**

Complete

Mark 0.20 out of 0.20

___resources can be resolved deadlocks by reallocating resources from one process to another.

⦿ a. Preemptable

◯ b. Nonpreemptable

The correct answer is:
Preemptable

Question **43**

Complete

Mark 0.20 out of 0.20

Is resources that can be taken away from the process owning it with no ill effects

○ a. Nonpreemptable

◉ b. Preemptable

The correct answer is:
Preemptable

Question **44**

Complete

Mark 0.10 out of 0.10

Is resources that cannot taken away from its current owner without causing the computation to fail

○ a. Preemptable

◉ b. Nonpreemptable

The correct answer is:
Nonpreemptable

Question **45**

Complete

Mark 0.20 out of 0.20

Deadlocks involve preemptable resources

- ○ a.   No
- ○ b.   Yes

The correct answer is:
No

Question **46**
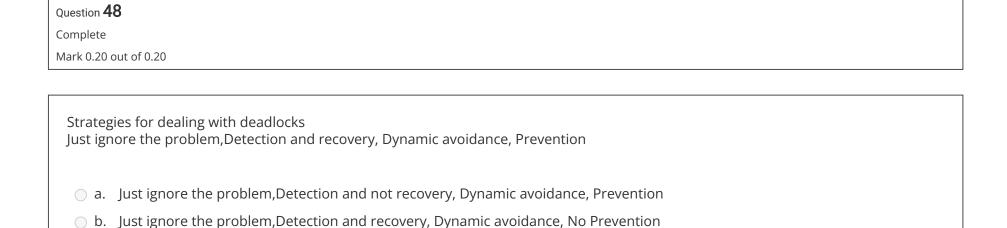
Complete

Mark 0.10 out of 0.10

The sequence of events required to use resource

1.Request the resource
2.Release the resource
3.Use the resource

- a. 312
- b. 321
- ● c. 132
- d. 213
- e. 231
- f. 123

The correct answer is:
132

Question **47**

Complete

Mark 0.20 out of 0.20

Four conditions must hold for there to be a deadlock
Mutual Exclusion, Hold and Wait, No Preemption, Circular Wait

- ⦿ a.   Mutual Exclusion, Hold and Wait, No Preemption, Circular Wait
- ○ b.   Mutual Exclusion, Hold and Wait, No Preemption, No Circular Wait
- ○ c.   Mutual Exclusion, Hold and no Wait, No Preemption, Circular Wait
- ○ d.   Mutual Exclusion, Hold and Wait, Preemption, Circular Wait

The correct answer is:
Mutual Exclusion, Hold and Wait, No Preemption, Circular Wait

Question **48**

Complete

Mark 0.20 out of 0.20

Strategies for dealing with deadlocks
Just ignore the problem,Detection and recovery, Dynamic avoidance, Prevention

○ a. Just ignore the problem,Detection and not recovery, Dynamic avoidance, Prevention

○ b. Just ignore the problem,Detection and recovery, Dynamic avoidance, No Prevention

⦿ c. Just ignore the problem,Detection and recovery, Dynamic avoidance, Prevention

○ d. Just not ignore the problem,Detection and recovery, Dynamic avoidance, Prevention

The correct answer is:
Just ignore the problem,Detection and recovery, Dynamic avoidance, Prevention

Question **49**

Complete

Mark 0.00 out of 0.10

Deadlock Detection with Multiple Resource of Each Type

$$E = (7, 4, 6) \qquad\qquad A = (0, 0, 0)$$

$$C = \begin{bmatrix} 0 & 1 & 0 \\ 2 & 0 & 0 \\ 3 & 0 & 3 \\ 2 & 1 & 1 \\ 0 & 2 & 2 \end{bmatrix} \qquad\qquad R = \begin{bmatrix} 0 & 0 & 0 \\ 2 & 0 & 2 \\ 0 & 0 & 1 \\ 1 & 0 & 0 \\ 0 & 0 & 2 \end{bmatrix}$$

Which is processes deadlock?

- a. 2345
- b. 1345
- ◉ c. 1235
- d. 1234

The correct answer is:
2345

Question **50**

Complete

Mark 0.10 out of 0.10

	Has	Max
A	0	6
B	0	5
C	0	4
D	0	7

Free: 10

(a)

	Has	Max
A	1	6
B	1	5
C	2	4
D	4	7

Free: 2

(b)

	Has	Max
A	1	6
B	2	5
C	2	4
D	4	7

Free: 1

(c)

which is safe and unsafe of deadlock avoidance?

- a.   a.unsafe, b.safe, c.unsafe
- b.   a.safe, b.safe, c.unsafe
- c.   a.safe, b.unsafe, c.unsafe
- d.   a.unsafe, b.safe, c.safe

The correct answer is:
a.safe, b.safe, c.unsafe

Question 51

Complete

Mark 0.10 out of 0.10

A system has five processes and three allocated resources. The current allocation and request needs are as follows:

Process	Allocated	Currently Request	Available
A	010	000	100
B	200	202	
C	303	001	
D	211	100	
E	022	002	

- What do the processes progress in sequence?

○ a. ADECB

○ b. ADEBC

○ c. ADCBE

◉ d. ADCEB

The correct answer is:
ADCEB

Question **52**

Complete

Mark 0.10 out of 0.10

OS classify drivers into 2 common categories: _____devices and character devices

- ○ a. pages
- ○ b. bits
- ◉ c. block
- ○ d. bytes

The correct answer is:
block

Question **53**

Complete

Mark 0.00 out of 0.10

DMA can operate in three mode
–Word-at-a-time mode
–Block mode
and____

- ◉ a. Byte mode
- ○ b. Bit mode
- ○ c. Fly-by mode

The correct answer is:

Fly-by mode

Question **54**

Complete

Mark 0.00 out of 0.10

RAID : a. Redundant Array of Inexpensive Disks
        b.Redundant Array of Independent Disks
        c. a & b

- a.   a
- b.   b
- c.   c

The correct answer is:
c

« »