

Quiz 4 (password: 2626) (Ch 13 - Ch 17)

Due Dec 7 at 11:59pm

Points 10

Questions 25

Available Dec 7 at 9:30am - Dec 7 at 11:59pm about 15 hours

Time Limit 90 Minutes

Instructions

Please enclose the detail calculation. You cannot come back to the previous question.

Thank you!

Attempt History

| | Attempt | Time | Score |
|--------|---------------------------|------------|---------------|
| LATEST | Attempt 1 | 59 minutes | 8 out of 10 * |

* Some questions not yet graded

⚠️ Correct answers are hidden.

Score for this quiz: 8 out of 10 *

Submitted Dec 7 at 10:37am

This attempt took 59 minutes.

Question 1**0.4 / 0.4 pts**

Data files whose records are always retrieved in sequence from the beginning of the file are known as_____.

☐ serial files

- ☐ logical files
- ☒ sequential files
- ☐ random access files

Question 2**0.4 / 0.4 pts**

Numerical input file consists of a mixture of alphanumeric ASCII characters and special binary formatting codes that are used in a word processor or spreadsheet

- ☐ True
- ☒ False

Incorrect**Question 3****0 / 0.4 pts**

X Window works by separating the software that actually produces the display image on the screen from the application program that creates the image and requests the display into a somewhat unusual _____ arrangement.

- ☐ master-slave
- ☐ client-server
- ☒ loosely coupled
- ☐ cooperative

Question 4**0.4 / 0.4 pts**

The _____ is a program that controls the execution of application programs and acts as an interface between applications and the computer hardware.

- ☐ batch files
- ☒ operating system
- ☐ job control language
- ☐ batch system

Incorrect**Question 5****0 / 0.4 pts**

A _____ system works only one program at a time.

- ☐ uniprogramming
- ☐ privileged instruction
- ☒ kernel
- ☐ batch

Question 6**0.4 / 0.4 pts**

The _____ scheduler determines which programs are admitted to the system for processing

☐ I/O☒ long-term☐ medium-term☐ short-term**Incorrect****Question 7****0 / 0.4 pts**

_____ is when the processor spends most of its time swapping pages rather than executing instructions.

☐ Paging☒ Swapping☐ Multitasking☐ Thrashing**Question 8****0.4 / 0.4 pts**

A _____ system groups the user's program with programs for other users and is submitted by a computer operator, with results being printed out for the user upon completion of the program

☒ batch☐ kernel☐ segmentation

☐ scheduling

Question 9

0.4 / 0.4 pts

Programs executed from a command line can combine commands using a technique called _____, so that the output from one command is automatically used as the input for another.

☐ parameter passing

☐ chaining

☐ channeling

☒ piping

Question 10

0.4 / 0.4 pts

Modern computer systems enable users to work with more than one program at the same time as a way to improve their efficiency. This technique is known as _____

☐ multi-procedures.

☒ multitasking.

☐ multiprocessing.

☐ multi-methods.

Question 11**0.4 / 0.4 pts**

Both wired and wireless analog signals are particularly susceptible to noise and attenuation and other forms of distortion in a channel because the distortion created cannot be _____

- ☐ amplified.
- ☐ detected.
- ☒ detected and reversed.
- ☐ reversed.

Question 12**0.4 / 0.4 pts**

Optical multiplexing is known as _____

- ☐ spectrum division multiplexing (SDM).
- ☐ amplitude division multiplexing (ADM).
- ☐ time division multiplexing (TDM).
- ☒ wavelength division multiplexing (WDM).

Question 13**0.4 / 0.4 pts**

_____ adds additional bits to small blocks of data; it then converts each block to a different block of data that supplies the required self-clocking.

☐ Batch encoding

☐ Byte coding

☐ Sector coding

☒ Block coding

Question 14

0.4 / 0.4 pts

When converting from analog to digital form, an A-to-D converter samples the wave at regular intervals and stores the sample as a binary value. The result is a digital representation of an analog wave. This process is called_____.

☐ analog code modulation (ACM).

☒ pulse code modulation (PCM).

☐ digital code modulation (DCM).

☐ signal code modulation (SCM).

Question 15

0.4 / 0.4 pts

Transmission media that confine the signal physically to a cable of some kind are called_____

☐ channel media.

☒ guided media.

☐ unguided media.

☐ confined media

Question 16

0.4 / 0.4 pts

Which of the following is false regarding fiber-optic cabling?

☐ Attenuation is very low.

☐ A laser or light-emitting diode is used as the light source.

☒ It is vulnerable to most forms of noise.

☐ Each strand is thinner than a human hair and may be tens or hundreds of miles long.

Question 17

0.4 / 0.4 pts

The first line of defense against file system failure is a well-defined set of proper system _____ procedures.

☐ network storage

☒ backup and file maintenance

☐ file maintenance

☐ backup

Question 18**0.4 / 0.4 pts**

The UNIX system does not attempt to avoid cycles. Instead, it restricts access to the linking capability of the system. Normal users may only create hard links to files, but not to _____. This prevents normal users from inadvertently creating cycles.

- ☒ directories
- ☐ working folders
- ☐ root folders
- ☐ files in use

Question 19**0.4 / 0.4 pts**

When new I/O devices are added, or the device is changed, it is necessary only to replace the

- ☐ configuration file.
- ☐ shell program responsible for that device.
- ☒ I/O driver for that device.
- ☐ File Management System.

Question 20**0.4 / 0.4 pts**

Keyword operands are sometimes known as_____

- ☒ switches
- ☐ mutations
- ☐ amendments
- ☐ command list parameters

Question 21

0.4 / 0.4 pts

The CPU may be switched rapidly between different programs, executing several instructions from each, using a periodic clock-generated interrupt. What is that technique called?

- ☒ time-slicing
- ☐ threading
- ☐ nonpreemptive switching
- ☐ execution switching

Question 22

0.4 / 0.4 pts

Modern computer systems enable users to work with more than one program at the same time as a way to improve their efficiency. This technique is known as_____

- ☒ multitasking
- ☐ multiprocessing
- ☐ File Management System.
- ☐ time-slicing

Incorrect**Question 23****0 / 0.4 pts**

When successive frames are transmitted on different channels, assigned randomly by the master node (as in a Bluetooth device), the technique is called _____

- ☒ quadrature amplitude modulation (QAM)
- ☐ frequency-hopping spread spectrum
- ☐ multitasking
- ☐ File Management System

Question 24**0.4 / 0.4 pts**

Which of the following is a contender for a cellular technology global standard?

- ☐ Mobile Ethernet
- ☒ Long Term Evolution (LTE)
- ☐ WiFi

☐ 3G**Question 25****Not yet graded / 0.4 pts**

How many 512 byte blocks are required to store a 1.6MB file?

Please type your calculations after each step:

Step 1: Change units to bytes:

[insert your calculation there]

Step 2: Divide by block size;

[insert your calculation there]

Step 3: Round up: [insert your calculation there]

Your Answer:

In 1.6 MB file, number of bytes = $(1.6 * 2^{20})$ bytes

Each block of 512 consist 2^9 bytes.

Hence, required number of blocks

$$= (1.6 * 2^{20}) / (2^9)$$

$$= 3276.8$$

So, **3277**-byte blocks are required to store a 1.6 MB file.

Quiz Score: **8** out of 10