Question **21**

Answer saved

Marked out of 1.00

If one or more devices use a common set of wires to communicate with the computer system, the connection is called _____

○ a. Wirefull

○ b. CPU

○ c. Monitor

◉ d. Bus

Clear my choice

Question **22**

Answer saved

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A system has 12 magnetic tape drives and 3 processes : P0, P1, and P2. Process P0 requires 10 tape drives, P1 requires 4 and P2 requires 9 tape drives.

```
Process
   P0
   P1
   P2
Maximum needs (process-wise: P0 through P2 top to bottom)
        10
        4
        9
Currently allocated (process-wise)
        5
        2
        2
```

Which of the following sequence is a safe sequence?

○ a. P1, P2, P0

○ b. P0, P1, P2

◉ c. P1, P0, P2

○ d. P2, P0, P1

    Clear my choice

Question **23**

Not yet answered

Marked out of 1.00

Consider that a disk partition using FAT-32 file system, 4-KB block size. How many disk-partition sizes up to?

○ a. 4 TB.

○ b. 2 TB.

○ c. 8 TB.

○ d. 1 TB.

Question **24**

Answer saved

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Match the following list1 with list2:
a. DMA I/O --------------------------------------- 1. High speed RAM
b. Cache --------------------------------------- 2. Disk
c. Interrupt I/O -------------------------------- 3. Printer
d. Condition code register ------------------- 4. ALU.

○ a. a – 4, b – 1, c – 3, d - 2

○ b. a – 3, b – 4, c – 2, d - 1

◉ c. a – 2, b – 1, c – 3, d - 4

○ d. a – 2, b – 3, c – 1, d - 4

Clear my choice

Question **25**

Not yet answered

Marked out of 1.00

What is defragmentation?

○ a. a paging technique

○ b. a technique for overcoming external fragmentation

○ c. a technique for overcoming internal fragmentation

○ d. a technique for overcoming fatal error

Question **26**

Answer saved

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Suppose that a machine has 48 bits virtual addresses and 32 bits physical addresses. If pages are 4KB. How many entries are in the page table if it has only a single level?

○ a. 2^{20}

○ b. 2^{32}

○ c. 2^{10}

◉ d. 2^{36}

Clear my choice

Question **27**

Answer saved

Marked out of 1.00

Applying the LRU page replacement to the following reference string:

1 2 4 5 2 1 2 4

The main memory can accommodate 3 pages and it already has pages 1 and 2. Page 1 came in before page 2.

How many page faults will occur ?

○ a. 2

○ b. 3

○ c. 5

⦿ d. 4

Clear my choice

Question **28**

Answer saved

Marked out of 1.00

A computer system has 6 tape drives, with 'n' processes competing for them. Each process may need 3 tape drives. The maximum value of 'n' for which the system is guaranteed to be deadlock free is?

⦿ a. 4

○ b. 3

○ c. 2

○ d. 1

Clear my choice

Question **29**

Answer saved

Marked out of 1.00

The Banker's algorithm is used

○ a. to prevent deadlock

○ b. to rectify deadlock

⦿ c. to detect deadlock

○ d. to solve deadlock

Clear my choice

Question **30**

Answer saved

Marked out of 1.00

Consider a disk queue with requests for I/O to blocks on cylinders.

98 183 37 122 14 124 65 67

Considering FCFS (first come first served) scheduling, the total number of head movements is _____, if the disk head is initially at cylinder 53?

- ○ a. 600

- ○ b. 620

- ○ c. 630

- ● d. 640

Clear my choice

◄ Works

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