OSG_1

Question #1 (1 point)

Which of the following statements about the CPU handling interrupts is incorrect?

- The processor ceases to execute the current sequence of instructions
- The hardware saves the old PC location
- The CPU branches to a new instruction sequence
- None of the other choices

Question #2 (1 point)

A special register that contains the address of the next instruction to be fetched is called:

- Instruction Register (IR)
- rogram Counter (PC)
- Program Status Word (PSW)
- All of the other choices

Question #3 (1 point)

The ways that input/output can be done is?

- Busy waiting
- Interrupt
- DMA (Direct Memory Access)
- All of the other choices

Question #4 (1 point)

Which of the following actions generates an external interrupt?

- An input/output operation is completed.
- A page that does not exist in the main memory is accessed by the virtual storage management.
- A system call instruction is executed.

Division by zero occurs.

Question #5 (1 point)

What is not a main function of an operating system?

- Provide the users with an extended (virtual) machine
- Manage the I/O devices
- Provide user interfaces
- Support virtual memory

Question #6 (1 point)

Where is the position of the operating system in computer system:

- Above the hardware and under the user interface program
- Between the user interface program and the application Program
- In user space
- None of the other choices

Question #7 (1 point)

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

- Disable all interrupts
- Read the time-of-day clock
- AND of two numbers
- ADD of two numbers

Question #8 (1 point)

Which of special register in the CPU points to the top of the current stack in the memory?

- IR
- PC
- PSW



Question #9 (1 point)

Information that must be saved prior to the processor transferring control to the interrupt handler routine includes:

- PSW
- PSW and PC
- PSW and Contents of processor registers
 - None of the other choices

Question #10 (1 point)

The language of the CPU is known as its

- Instruction set
- Register set
- Control unit set
- None of the other choices

Question #11 (1 point)

A CPU may have two or more complete processors, so that can carry out multiple threads in the same time is called:

- Pipeline
- Superscalar
- Multicore
- None of the other choices

Question #12 (1 point)

The two basic types of processor registers are:

- General and special registers
- Control and Status registers
- User-visible and user-invisible registers

None of the other choices

Question #13 (1 point)

The general role of an operating system is to:

- Act as an interface between various computers
- rovide a set of services to system users
 - Manage files for application programs
 - None of the other choices

Question #14 (1 point)

Booting a general purpose computer involves the following steps except

- Execution of a ROM-based POST sequence
- Loading one or more bootstrap loaders
- Loading the OS



Loading the command interpreter

Question #15 (1 point)

Which of the following statements is incorrect about the CMOS?

- Is volatile
 - Interrupt
 - To contain BIOS
 - To hold the configuration parameters

Question #16 (1 point)

A CPU may have multiple execution units, so that can carry out multiple instructions in the same time is called:

Pipeline



- Multicore
- None of the other choices

Question #17 (1 point)

An operating system

- Manages hardware resources in a computer system
- Manages software resources in a computer system
- Deals with complex hardware resources and provides the user a virtual/extended machine that is much easier to deal with than the physical machine



Question #18 (1 point)

Which of the following is not a step in the boot process?

- Configuration and customization settings are checked.
- The BIOS is activated by powering on the CPU.
- The antivirus program checks all files for viruses.
- The operating system is loaded into RAM.

Question #19 (1 point)

The four main structural elements of a computer system are:

- Processor, Registers, I/O Modules, Main Memory
- O Processor, Registers, Main Memory, System Bus
- Processor, Main Memory, I/O Modules, System Bus
- None of the other choices

Question #20 (1 point)

What is interrupt vector?

- A signal an I/O device sends to CPU
- The addresses of interrupt handlers
- Part of memory which contains the addresses of interrupt handlers
- None of the other choices

Question #21 (1 point)

Which of the following statements about Random Access memory (RAM) is correct?

- Is typically faster than cache memory
- Is volatile
- Can only be read sequentially
- Stores all the files on the computer

Question #22 (1 point)

A CPU may have separate fetch, decode and execute units, so that can carry out three steps of the three instructions in the same time is called:

- Pipeline
- Superscalar
- Multicore
- None of the other choices

Question #23 (1 point)

Which of the following is not a operating mode of CPU

- User mode
- Kernel mode
- Management mode
- None of the other choices

Question #24 (1 point)

As one proceeds down the memory hierarchy (from inboard memory to offline storage), the following conditions apply:

- Decreasing cost per bit
- Increasing capacity
- Increasing access time
- All of the other choices

Question #25 (1 point)

Which of the following statements about Electrically Erasable PROM (EEPROM) is correct?

- Can be erased and rewritten
- Volatile
- Unprogrammable
- None of the other choices

Question #26 (1 point)

Which is not an example of a resource that is commonly space-multiplexed?

- CPU
- Video RAM
- Hard drive
- Main memory

Question #27 (1 point)

List of memory location, that contains the executable program, the program's data, and its stack is called:

- set of resources
- address space
- address memory
- All of the other choices

Question #28 (1 point)

As one proceeds down the memory hierarchy (from inboard memory to offline storage), which of the following conditions is correct?

- Increasing cost per bit
- Decreasing capacity
- Increasing access time

None of the other choices

Question #29 (1 point)

Which of special register contains the condition code bits, the CPU priority, the mode bit and other control bits?

- Instruction Register (IR)
- Program Counter (PC)
- Program Status Word (PSW)
- None of the other choices

Question #30 (1 point)

Examples of general purpose stored program computers include the following except

- Personal computers
- Network servers
- Workstations
- MP3 player