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- 2) - Processor speeds
 - 3) - All statements are TRUE.
 - 4) - All statements are FALSE.
- 12) The main difference between Many Integrated Core (MIC) Graphics Processing Unit (GPU):
- 1) - The number of cores
 - 2) ☒ The type of tasks they are designed for
 - 3) - Their power consumption
 - 4) - Their size
- 13) Determine the address of the next instruction to be executed.
- 1) ☒ Instruction address calculation (iac)
 - 2) - Operand address calculation (oac)
 - 3) - Instruction fetch (if)
 - 4) - Instruction operation decoding (iod)
- 14) An interrupt service routine (ISR) is:
- 1) ☒ A program that handles interrupts
 - 2) - A part of the operating system
 - 3) - A hardware component
 - 4) - All statements are TRUE.
- 15) Acknowledges that the pending interrupt has been recognized.
- 1) ☒ Interrupt ACK
 - 2) - Interrupt request
 - 3) - Bus grant
 - 4) - Bus request
- 16) Computer systems contain many different _____
- 1) - Buses.
 - 2) - Lines.
 - 3) - Control signal.
 - 4) ☒ All statements are TRUE..
- 17) Primary memory is faster and more expensive than secondary memory.
- 1) ☒ TRUE.
 - 2) - FALSE.
- 18) The physical characteristics of memory can be semiconductor, magnetic, optical, or magneto-optical.
- 1) - TRUE.
 - 2) ☒ FALSE.
- 19) Associative access refers to:
- 1) - Accessing data in a specific linear sequence
 - 2) - Accessing data randomly
 - 3) - Accessing data directly based on a unique address
 - 4) ☒ Accessing data based on a portion of its contents
- 20) The memory hierarchy is based on the principle that:
- 1) - Faster memory is more expensive.
 - 2) - Slower memory is a large.
 - 3) - Memory speed and cost are related.
 - 4) ☒ All statements are TRUE..
- 21) If the requested data is not found in the cache, it is called a:
- 1) - Hit
 - 2) ☒ Miss
 - 3) - Cache line
 - 4) - All statements are FALSE..



- 22) The hardware converts virtual addresses into physical addresses via
- 1) ☒ Operating system
 - 2) ☐ CPU
 - 3) ☐ Both CPU and operating system.
 - 4) ☐ All statements are FALSE..
- 23) The main disadvantage of the write-through policy is:
- 1) ☒ It generates large traffic
 - 2) ☐ It is complex to implement
 - 3) ☐ It reduces the cache hit rate
 - 4) ☐ All statements are FALSE..
- 24) Permits each main memory block to be loaded into any line of the cache.
- 1) ☒ Associative Mapping
 - 2) ☐ Direct Mapping
 - 3) ☐ Set Associative
 - 4) ☐ Both Direct and Associative
- 25) Dynamic RAM (DRAM) requires periodic charge refreshing to:
- 1) ☒ Maintain data storage
 - 2) ☐ Increase speed
 - 3) ☐ Reduce power consumption
 - 4) ☐ All statements are FALSE.
- 26) Static RAM (SRAM) uses the same logic elements as:
- 1) ☒ The processor
 - 2) ☐ The disk
 - 3) ☐ The I/O devices
 - 4) ☐ All statements are FALSE..
- 27) _____ written into at any time without erasing prior contents.
- 1) ☒ Electrically erasable programmable read-mostly memory (EEPROM)
 - 2) ☐ Erasable programmable read-mostly memory (EPROM)
 - 3) ☐ Flash Memory
 - 4) ☐ All statements are TRUE..
- 28) The error correction function has results:
- 1) ☐ No errors are detected.
 - 2) ☐ An error is detected, and it is possible to correct the error.
 - 3) ☐ An error is detected, but it is not possible to correct it.
 - 4) ☒ All statements are TRUE..
- 29) Each platter has:
- 1) ☒ Two surfaces
 - 2) ☐ Three surfaces
 - 3) ☐ Four surfaces
 - 4) ☐ All statements are FALSE..
- 30) Single-sided disks are more expensive than double-sided disks.
- 1) ☐ TRUE.
 - 2) ☒ FALSE.
- 31) The main difference between Solid State Drives (SSD) compared to Hard Disks Drives (HDD) is:
- 1) ☐ The data transfer rate
 - 2) ☒ The power consumption
 - 3) ☐ All statements are FALSE..
 - 4) ☐ All statements are TRUE..
- 32) Hard Disks Drives (HDD) use:



- 1) - Flash memory
 - 2) ☒ Magnetic disks
 - 3) - Optical discs
 - 4) - The mixture of glass and ceramic
- 33) Addressing modes can be used to:
- 1) - Simplify instruction encoding
 - 2) - Improve program efficiency
 - 3) - Both Simplify instruction encoding and Improve program efficiency
 - 4) ☒ Neither Simplify instruction encoding nor Improve program efficiency
- 34) The direct addressing mode is used to:
- 1) - Initialize registers to a constant value
 - 2) ☒ Access static data
 - 3) - For records implementation
 - 4) - All statements are TRUE..
- 35) The register indirect addressing mode is like the indirect addressing mode both use to:
- 1) - Initialize registers to a constant value.
 - 2) - Handle recursive procedures.
 - 3) - All statements are FALSE..
 - 4) ☒ Pass an array as a parameter.
- 36) The address field references the main memory address and the referenced register contains a positive displacement from that address.
- 1) ☒ Indexing addressing.
 - 2) - Base-register addressing.
 - 3) - Stack addressing.
 - 4) - Relative addressing.
- 37) The Complementer is used for:
- 1) ☒ Performing arithmetic operations
 - 2) - Performing logical operations
 - 3) - Shifting data left or right
 - 4) - Controlling the flow of data
- 38) Used by the control unit to control the operation of the processor.
- 1) ☒ Control Registers
 - 2) - User-Visible Registers
 - 3) - Program Status Word (PSW)
 - 4) - All statements are TRUE.
- 39) Conditional branch instructions can:
- 1) - Improve pipelining performance
 - 2) ☒ Limit pipelining performance
 - 3) - Do not affect pipelining performance
 - 4) - Produces an incorrect result.
- 40) Types of pipeline hazards:
- 1) - Resource
 - 2) - Data
 - 3) - Control
 - 4) ☒ All statements are TRUE..