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| \_\_\_\_ states that the cost of fabrication facilities for the latest chip generation doubles every four years. |
| Question 1 answers   |  |  |  | | --- | --- | --- | |  | a. | Rock’s Law | |  | b. | Nelson’s Law | |  | c. | Moore’s Law | |  | d. | Lamb’s Law | |

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| Question 2 text**Question 2** | **2 points** | | | | [Save](javascript:saveItem('_11803009_1','2')) |
|  | Each clock cycle the CPU spends waiting for a slower device is called a \_\_\_\_. |  |  |  |  |
| Question 2 answers   |  |  |  | | --- | --- | --- | |  | a. | suspend state | |  | b. | wait state | |  | c. | hold state | |  | d. | block state | |  |  |  |  |

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| Question 3 text**Question 3** | **2 points** | | | | [Save](javascript:saveItem('_11803010_1','3')) |
|  | Practical optical processors will probably appear first as full-fledged computer processors. |  |  |  |  |
| Question 3 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 4 text**Question 4** | **2 points** | | | | [Save](javascript:saveItem('_11803011_1','4')) |
|  | MOVE tests the bit values in the source location and moves these values to the destination location. |  |  |  |  |
| Question 4 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 5 text**Question 5** | **2 points** | | | | [Save](javascript:saveItem('_11803012_1','5')) |
|  | The \_\_\_\_ is a digital circuit that generates timing pulses, or signals, and transmits the pulses to other devices in the computer. |  |  |  |  |
| Question 5 answers   |  |  |  | | --- | --- | --- | |  | a. | memory clock | |  | b. | variance clock | |  | c. | system clock | |  | d. | data clock | |  |  |  |  |

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| Question 6 text**Question 6** | **2 points** | | | | [Save](javascript:saveItem('_11803013_1','6')) |
|  | An \_\_\_\_ is a template that specifies the number of operands and the position and length of the op code and operands. |  |  |  |  |
| Question 6 answers   |  |  |  | | --- | --- | --- | |  | a. | instruction format | |  | b. | operation format | |  | c. | operand template | |  | d. | instruction template | |  |  |  |  |

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| Question 7 text**Question 7** | **2 points** | | | | [Save](javascript:saveItem('_11803014_1','7')) |
|  | Arithmetic SHIFT instructions are more complex when applied to twos complement values because the rightmost bit is a sign bit. |  |  |  |  |
| Question 7 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 8 text**Question 8** | **2 points** | | | | [Save](javascript:saveItem('_11803015_1','8')) |
|  | Many \_\_\_\_ create application software for specific processing needs. |  |  |  |  |
| Question 8 answers   |  |  |  | | --- | --- | --- | |  | a. | system architects | |  | b. | software developers | |  | c. | systems designers | |  | d. | software engineers | |  |  |  |  |

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| Question 9 text**Question 9** | **2 points** | | | | [Save](javascript:saveItem('_11803016_1','9')) |
|  | Unbiased information exists on the Web, and it’s generally easy to find. |  |  |  |  |
| Question 9 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 10 text**Question 10** | **2 points** | | | | [Save](javascript:saveItem('_11803017_1','10')) |
|  | Hardware and software manufacturers are in the business of providing unbiased information about products. |  |  |  |  |
| Question 10 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 11 text**Question 11** | **2 points** | | | | [Save](javascript:saveItem('_11803018_1','11')) |
|  | End users use \_\_\_\_ to perform specific tasks, such as processing customer orders or developing and formatting documents and financial analyses. |  |  |  |  |
| Question 11 answers   |  |  |  | | --- | --- | --- | |  | a. | design software | |  | b. | middleware | |  | c. | system software | |  | d. | application software | |  |  |  |  |

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| Question 12 text**Question 12** | **2 points** | | | | [Save](javascript:saveItem('_11803019_1','12')) |
|  | The \_\_\_\_ discipline is the set of activities for installing and configuring infrastructure and application software components and bringing them into operation. |  |  |  |  |
| Question 12 answers   |  |  |  | | --- | --- | --- | |  | a. | services | |  | b. | testing | |  | c. | deployment | |  | d. | implementation | |  |  |  |  |

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| Question 13 text**Question 13** | **2 points** | | | | [Save](javascript:saveItem('_11803020_1','13')) |
|  | In the binary32 format, the leading sign bit applies to the exponent, not the mantissa. |  |  |  |  |
| Question 13 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 14 text**Question 14** | **2 points** | | | | [Save](javascript:saveItem('_11803021_1','14')) |
|  | Binary numbers are well suited to computer processing because they correspond directly with values in \_\_\_\_ logic. |  |  |  |  |
| Question 14 answers   |  |  |  | | --- | --- | --- | |  | a. | Boolean | |  | b. | Newton | |  | c. | Turing | |  | d. | standard | |  |  |  |  |

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| Question 15 text**Question 15** | **2 points** | | | | [Save](javascript:saveItem('_11803022_1','15')) |
|  | A(n) \_\_\_\_ is one instance, or variable, of a class. |  |  |  |  |
| Question 15 answers   |  |  |  | | --- | --- | --- | |  | a. | implementation | |  | b. | structure | |  | c. | object | |  | d. | list | |  |  |  |  |

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| Question 16 text**Question 16** | **2 points** | | | | [Save](javascript:saveItem('_11803023_1','16')) |
|  | A(n) \_\_\_\_ is a related group of primitive data elements organized for some type of common processing and is defined and manipulated in software. |  |  |  |  |
| Question 16 answers   |  |  |  | | --- | --- | --- | |  | a. | data structure | |  | b. | object | |  | c. | pointer | |  | d. | primitive | |  |  |  |  |

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| Question 17 text**Question 17** | **2 points** | | | | [Save](javascript:saveItem('_11803024_1','17')) |
|  | The assignment of numeric codes to characters follows a specific order called a(n) \_\_\_\_. |  |  |  |  |
| Question 17 answers   |  |  |  | | --- | --- | --- | |  | a. | collating sequence | |  | b. | alignment sequence | |  | c. | byte sequence | |  | d. | alphabet sequence | |  |  |  |  |

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| Question 18 text**Question 18** | **2 points** | | | | [Save](javascript:saveItem('_11803025_1','18')) |
|  | Using contiguous storage locations, especially in secondary storage devices, simplifies the allocation of storage locations. |  |  |  |  |
| Question 18 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 19 text**Question 19** | **2 points** | | | | [Save](javascript:saveItem('_11803026_1','19')) |
|  | The advantage of using an index lies in the efficiency of record insertion, deletion, and retrieval. |  |  |  |  |
| Question 19 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 20 text**Question 20** | **2 points** | | | | [Save](javascript:saveItem('_11803027_1','20')) |
|  | Zip files and archives are examples of lossless compression. |  |  |  |  |
| Question 20 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 21 text**Question 21** | **2 points** | | | | [Save](javascript:saveItem('_11803028_1','21')) |
|  | Many computer system designers now rely on \_\_\_\_ to implement disk caching. |  |  |  |  |
| Question 21 answers   |  |  |  | | --- | --- | --- | |  | a. | the OS | |  | b. | specialized disk controller hardware | |  | c. | firmware | |  | d. | applications | |  |  |  |  |

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| Question 22 text**Question 22** | **2 points** | | | | [Save](javascript:saveItem('_11803029_1','22')) |
|  | Both multicore and multiple-processor architectures are examples of scaling up because they increase the power of a single computer system. |  |  |  |  |
| Question 22 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 23 text**Question 23** | **2 points** | | | | [Save](javascript:saveItem('_11803030_1','23')) |
|  | With \_\_\_\_ compression, any data input that’s compressed and then decompressed is exactly the same as the original input. |  |  |  |  |
| Question 23 answers   |  |  |  | | --- | --- | --- | |  | a. | lossy | |  | b. | perfect | |  | c. | lossless | |  | d. | ideal | |  |  |  |  |

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| Question 24 text**Question 24** | **2 points** | | | | [Save](javascript:saveItem('_11803031_1','24')) |
|  | Devices attached to a system bus coordinate their activities with a common \_\_\_\_. |  |  |  |  |
| Question 24 answers   |  |  |  | | --- | --- | --- | |  | a. | data bus | |  | b. | system bus | |  | c. | control bus | |  | d. | bus clock | |  |  |  |  |

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| Question 25 text**Question 25** | **2 points** | | | | [Save](javascript:saveItem('_11803032_1','25')) |
|  | \_\_\_\_ is an approach that partitions processing and other tasks among multiple computer systems. |  |  |  |  |
| Question 25 answers   |  |  |  | | --- | --- | --- | |  | a. | Scaling up | |  | b. | Scaling out | |  | c. | Scaling down | |  | d. | Scaling in | |  |  |  |  |

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| Question 26 text**Question 26** | **2 points** | | | | [Save](javascript:saveItem('_11803033_1','26')) |
|  | Lossless compression ratios higher than 50:1 are difficult or impossible to achieve with audio and video data. |  |  |  |  |
| Question 26 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 27 text**Question 27** | **2 points** | | | | [Save](javascript:saveItem('_11803034_1','27')) |
|  | The ratio of cache hits to read accesses is called the cache’s \_\_\_\_. |  |  |  |  |
| Question 27 answers   |  |  |  | | --- | --- | --- | |  | a. | hit boundary | |  | b. | performance | |  | c. | hit ratio | |  | d. | efficiency | |  |  |  |  |

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| Question 28 text**Question 28** | **2 points** | | | | [Save](javascript:saveItem('_11803035_1','28')) |
|  | Because plasma displays actively generate colored light near the display surface, they’re brighter and have a wider viewing angle than LCDs. |  |  |  |  |
| Question 28 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 29 text**Question 29** | **2 points** | | | | [Save](javascript:saveItem('_11803036_1','29')) |
|  | On paper, pixel size corresponds to the smallest drop of ink that can be placed accurately on the page. |  |  |  |  |
| Question 29 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 30 text**Question 30** | **2 points** | | | | [Save](javascript:saveItem('_11803037_1','30')) |
|  | Printer technology can be classified into three common types: \_\_\_\_. |  |  |  |  |
| Question 30 answers   |  |  |  | | --- | --- | --- | |  | a. | impact, sublimation, and laser | |  | b. | impact, inkjet, and laser | |  | c. | sublimation, inkjet, and laser | |  | d. | inkjet, impact, and electric | |  |  |  |  |

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| Question 31 text**Question 31** | **2 points** | | | | [Save](javascript:saveItem('_11803038_1','31')) |
|  | \_\_\_\_ is the process of recognizing and responding to the meaning embedded in spoken words, phrases, or sentences. |  |  |  |  |
| Question 31 answers   |  |  |  | | --- | --- | --- | |  | a. | Voice recognition | |  | b. | Natural recognition | |  | c. | Pattern recognition | |  | d. | Speech recognition | |  |  |  |  |

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| Question 32 text**Question 32** | **2 points** | | | | [Save](javascript:saveItem('_11803039_1','32')) |
|  | The first computer video display devices, introduced in the 1960s, consisted of an integrated keyboard and TV screen called a \_\_\_\_. |  |  |  |  |
| Question 32 answers   |  |  |  | | --- | --- | --- | |  | a. | video display terminal | |  | b. | teletype terminal | |  | c. | video interaction terminal | |  | d. | video interface terminal | |  |  |  |  |

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| Question 33 text**Question 33** | **2 points** | | | | [Save](javascript:saveItem('_11803040_1','33')) |
|  | PDF417 bar codes can hold around \_\_\_\_ of data. |  |  |  |  |
| Question 33 answers   |  |  |  | | --- | --- | --- | |  | a. | 1 KB | |  | b. | 1 MB | |  | c. | 1 GB | |  | d. | 1 TB | |  |  |  |  |

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| Question 34 text**Question 34** | **2 points** | | | | [Save](javascript:saveItem('_11803041_1','34')) |
|  | The most common display surfaces are paper and flat panel displays. |  |  |  |  |
| Question 34 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 35 text**Question 35** | **2 points** | | | | [Save](javascript:saveItem('_11803042_1','35')) |
|  | Up to \_\_\_\_ channels of MIDI data can be sent over the same serial transmission line |  |  |  |  |
| Question 35 answers   |  |  |  | | --- | --- | --- | |  | a. | 4 | |  | b. | 8 | |  | c. | 16 | |  | d. | 32 | |  |  |  |  |

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| Question 36 text**Question 36** | **2 points** | | | | [Save](javascript:saveItem('_11803043_1','36')) |
|  | A \_\_\_\_ is a set of computing resources with front-end interfaces and back-end resources. |  |  |  |  |
| Question 36 answers   |  |  |  | | --- | --- | --- | |  | a. | blade | |  | b. | cluster | |  | c. | grid | |  | d. | cloud | |  |  |  |  |

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| Question 37 text**Question 37** | **2 points** | | | | [Save](javascript:saveItem('_11803044_1','37')) |
|  | In a computation device, a(n) \_\_\_\_ is driven by a spring and pendulum, and each swing of the pendulum allows a gear to move one step under pressure from the spring. |  |  |  |  |
| Question 37 answers   |  |  |  | | --- | --- | --- | |  | a. | mechanical clock | |  | b. | aluminum clock | |  | c. | analog clock | |  | d. | kerosene clock | |  |  |  |  |

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| Question 38 text**Question 38** | **2 points** | | | | [Save](javascript:saveItem('_11803045_1','38')) |
|  | In the “layered approach,” knowledge of the machine’s physical details is embedded into system software and hidden from users and application programmers. This is commonly referred to as \_\_\_\_. |  |  |  |  |
| Question 38 answers   |  |  |  | | --- | --- | --- | |  | a. | machine independence | |  | b. | abstraction | |  | c. | virtualization | |  | d. | machine dependence | |  |  |  |  |

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| Question 39 text**Question 39** | **2 points** | | | | [Save](javascript:saveItem('_11803046_1','39')) |
|  | “\_\_\_\_” is the concept that the per-unit cost of producing goods or providing services decreases as the organization size increases. |  |  |  |  |
| Question 39 answers   |  |  |  | | --- | --- | --- | |  | a. | Economies of balance | |  | b. | Economies of scale | |  | c. | Economies of measure | |  | d. | Economies of growth | |  |  |  |  |

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| Question 40 text**Question 40** | **2 points** | | | | [Save](javascript:saveItem('_11803047_1','40')) |
|  | A \_\_\_\_ is a program that translates instructions in a programming language into CPU instructions. |  |  |  |  |
| Question 40 answers   |  |  |  | | --- | --- | --- | |  | a. | program translator | |  | b. | linker | |  | c. | parser | |  | d. | compiler | |  |  |  |  |

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| Question 41 text**Question 41** | **2 points** | | | | [Save](javascript:saveItem('_11803048_1','41')) |
|  | A(n) \_\_\_\_ is a program in which different sets of instructions are applied to different data input values. |  |  |  |  |
| Question 41 answers   |  |  |  | | --- | --- | --- | |  | a. | problem | |  | b. | system | |  | c. | solution | |  | d. | algorithm | |  |  |  |  |

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| Question 42 text**Question 42** | **2 points** | | | | [Save](javascript:saveItem('_11803049_1','42')) |
|  | A personal digital assistant is a laptop computer that emphasizes small size, reduced weight, low cost, and wireless networking and is capable of performing only light-duty tasks, such as Web browsing, e-mailing, and word processing. |  |  |  |  |
| Question 42 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 43 text**Question 43** | **2 points** | | | | [Save](javascript:saveItem('_11803050_1','43')) |
|  | Memory devices comprised of semiconductors and other forms of RAM with long-term or permanent data retention are generically known as \_\_\_\_. |  |  |  |  |
| Question 43 answers   |  |  |  | | --- | --- | --- | |  | a. | persistent memory | |  | b. | volatile memory | |  | c. | nonvolatile memory | |  | d. | tertiary storage | |  |  |  |  |

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| Question 44 text**Question 44** | **2 points** | | | | [Save](javascript:saveItem('_11803051_1','44')) |
|  | Electrical current can generate a magnetic field but a magnetic field cannot generate electricity. |  |  |  |  |
| Question 44 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 45 text**Question 45** | **2 points** | | | | [Save](javascript:saveItem('_11803052_1','45')) |
|  | Coercible material per sector is greater at the center than in the platter edge. |  |  |  |  |
| Question 45 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 46 text**Question 46** | **2 points** | | | | [Save](javascript:saveItem('_11803053_1','46')) |
|  | \_\_\_\_ stores each bit by using a single transistor and capacitor. |  |  |  |  |
| Question 46 answers   |  |  |  | | --- | --- | --- | |  | a. | Dynamic RAM | |  | b. | Dynamic ROM | |  | c. | Static ROM | |  | d. | Static RAM | |  |  |  |  |

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| Question 47 text**Question 47** | **2 points** | | | | [Save](javascript:saveItem('_11803054_1','47')) |
|  | Block size is normally stated in bytes and is generally the same between storage devices, especially in a single storage device. |  |  |  |  |
| Question 47 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 48 text**Question 48** | **2 points** | | | | [Save](javascript:saveItem('_11803055_1','48')) |
|  | A \_\_\_\_ is a CPU cycle spent waiting for access to an instruction or data. |  |  |  |  |
| Question 48 answers   |  |  |  | | --- | --- | --- | |  | a. | clock state | |  | b. | hold state | |  | c. | purge state | |  | d. | wait state | |  |  |  |  |

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| Question 49 text**Question 49** | **2 points** | | | | [Save](javascript:saveItem('_11803056_1','49')) |
|  | Cost per unit decreases as an access method moves from serial to random to parallel. |  |  |  |  |
| Question 49 answers   |  |  | | --- | --- | |  | True | |  | False | |  |  |  |  |

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| Question 50 text**Question 50** | **2 points** | | | | [Save](javascript:saveItem('_11803057_1','50')) |
|  | \_\_\_\_ is a read-ahead RAM that uses the same clock pulse as the system bus. |  |  |  |  |
| Question 50 answers   |  |  |  | | --- | --- | --- | |  | a. | Synchronous DRAM | |  | b. | Flash DRAM | |  | c. | Asynchronous DRAM | |  | d. | Continuous DRAM | |  |  |  |  |