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Multiple Choice

1. Many desktop computers use the _____ bus standard in which the system augments its main bus with dedicated I/O buses using expansion slots.
A) enhanced integrated bus
B) serial advanced technology attachment
C) universal serial bus
D) peripheral component interconnect

Ans: D
Complexity: Moderate
Ahead: An Example System: Wading Through the Jargon
Subject: Chapter 1
Title: Introduction

2. Which organization sets standards for photographic film and the pitch of screw threads, in addition to matters concerning computers?
A) ISO
B) IEEE
C) CCITT
D) ANSI

Ans: A
Complexity: Easy
Ahead: Standards Organizations
Subject: Chapter 1
Title: Introduction

3. The first general-purpose programmable electronic computer was the:
A) ENIAC.
B) IBM 650.
C) Atanasoff-Berry computer.
D) DEC PDP-1.

Ans: A
Complexity: Easy
Ahead: Historical Development
Subject: Chapter 1
Title: Introduction

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4. We study computer _____ to become familiar with how circuits and signals collaborate to create working computer systems.
A) architecture
B) organization
C) layers
D) programming

Ans: B
Complexity: Easy
Ahead: Overview
Subject: Chapter 1
Title: Introduction

5. There are _____ kilobytes in an exabyte.
A) 2^{20}
B) 2^{30}
C) 2^{40}
D) 2^{50}

Ans: D
Complexity: Moderate
Ahead: An Example System: Wading Through the Jargon
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6. The first supercomputer, the CDC 6600, had a memory size of:
A) 128 kilowords.
B) 256 megawords.
C) 128 gigawords.
D) 256 terawords.

Ans: A
Complexity: Easy
Ahead: Historical Development
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7. Infrastructure as a Service (IaaS) replaces the _____ of the computer hierarchy with an Internet-based infrastructure.
A) digital logic level through user levels
B) digital logic level through high-level language levels
C) system software level through high-level language levels
D) digital logic level through machine levels

Ans: D
Complexity: Moderate
Ahead: Cloud Computing: Computing as a Service
Subject: Chapter 1
Title: Introduction

8. There are _____ gigabytes in a terabyte.
A) 2^{10}
B) 2^{20}
C) 2^{30}
D) 2^{40}

Ans: A
Complexity: Moderate
Ahead: An Example System: Wading Through the Jargon
Subject: Chapter 1
Title: Introduction

True/False

1. True or False? Computer architecture encompasses all physical aspects of computer systems.

Ans: False
Complexity: Moderate
Ahead: Overview
Subject: Chapter 1
Title: Introduction

2. True or False? There are one billion microseconds in a second.

Ans: False

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Complexity: Easy
Ahead: An Example System: Wading Through the Jargon
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3. True or False? Hot plugging means the same thing as Plug-and-Play.

Ans: False
Complexity: Moderate
Ahead: An Example System: Wading Through the Jargon
Subject: Chapter 1
Title: Introduction

4. True or False? A control unit consists of a central processing unit (CPU) with an arithmetic logic unit (ALU) and registers.

Ans: False
Complexity: Easy
Ahead: The von Neumann Architecture
Subject: Chapter 1
Title: Introduction

Fill-in-the-Blank

1. Expressed as a power of two, there are _____ kilobytes in a megabyte.

Ans: 2^{10}
Complexity: Moderate
Ahead: Overview
Subject: Chapter 1
Title: Introduction

2. Expressed as a power of two, there are _____ megabytes in a terabyte.

Ans: 2^{20}
Complexity: Moderate

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Ahead: An Example System: Wading Through the Jargon
Subject: Chapter 1
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3. The statement, “The cost of capital equipment to build semiconductors will double every four years,” is known as _____.

Ans: Rock’s Law
Complexity: Easy
Ahead: Historical Development
Subject: Chapter 1
Title: Introduction

4. A kilobyte represents what power of two?

Ans: 10, Ten
Complexity: Easy
Ahead: An Example System: Wading Through the Jargon
Subject: Chapter 1
Title: Introduction

5. Computers designed using the _____ architecture have two buses: one for data and one for instructions.

Ans: Harvard
Complexity: Moderate
Ahead: Non–von Neumann Models
Subject: Chapter 1
Title: Introduction

6. At the most basic level, a computer is a device consisting of three pieces: a processor, an I/O mechanism, and a(n) _____.

Ans: memory
Complexity: Easy
Ahead: Overview
Subject: Chapter 1
Title: Introduction

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7. There are _____ nanoseconds in a millisecond.

Ans: 1,000,000
Complexity: Moderate
Ahead: An Example System: Wading Through the Jargon
Subject: Chapter 1
Title: Introduction

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