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Certiport IC3 Computing Fundamentals Exam

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Question: 1

Which of the following portable computer systems is used by Zypad, which is a touch screen computer with GPS, Wi-Fi, and the Bluetooth connectivity and can run a number of custom applications?

- A. Subnotebook
- B. Wearable
- C. Tablet PC
- D. PDA

Answer: B

Explanation:

Zypad uses wearable computer systems, which is a touch screen computer with GPS, Wi-Fi, and the Bluetooth connectivity and can run a number of custom applications. Wearable computers are computers that are worn on the body. It is a special type of a technology that is used in the behavioral modeling, health monitoring systems, information technologies, and media development. Wearable computers are useful for applications that require computational support while the user's hands, voice, eyes, arms, or attention are actively engaged with the physical environment.

The features of a wearable computer are given below:

1. It provides consistency; there is a constant interaction between the computer and user, i.e., there is no need to turn the device on or off.
2. It provides multi-task and it is not necessary to stop what you are doing to use the device; it is augmented into all other actions.

Lesson: Computer Hardware, Peripherals and Troubleshooting

Objective: Computer and its peripherals

Question: 2

Which of the following are features of wearable computers?

Each correct answer represents a complete solution. Choose two.

- A. Single-tasking
- B. Consistency
- C. Multi-tasking
- D. Inconsistency

Answer: BC

Explanation:

It provides consistency; there is a constant interaction between a computer and a user, i.e. there is no need to turn the device on or off.

It provides multi-tasking, and it is not necessary to stop what you are doing to use the device; it is augmented into all other actions.

Answer options A and D are incorrect. Wearable computers are consistent and provide multi-tasking, therefore, single-tasking and inconsistency are not the features of a wearable computer.

Lesson: Computer Hardware, Peripherals and Troubleshooting

Objective: Computer and its peripherals

Question: 3

Q: Which of the following are the standard input devices?

Each correct answer represents a complete solution. Choose all that apply.

- A. Keyboard
- B. Mouse
- C. Display
- D. Plotter

Answer: AB

Explanation:

Keyboard and mouse are the standard input devices. A keyboard is a standard input device. It is partially modeled after the typewriter keyboard, which uses an arrangement of buttons or keys, to act as mechanical levers or electronic switches. It has characters engraved or printed on the keys and each press of a key typically corresponds to a single written symbol. It is used to produce some symbols that requires pressing and holding several keys simultaneously or in sequence.

A keyboard is used to type text and numbers into a word processor, text editor, or other program. A computer keyboard distinguishes each physical key from every other and reports all key presses to the controlling software. Keyboards are also used for computer gaming, either with regular keyboards or by using keyboards with special gaming features, which can expedite frequently used keystroke combinations. A keyboard is also used to give commands to the operating system of a computer, such as Windows' Control-Alt-Delete combination, which brings up a task window or shuts down the machine.

Lesson: Computer Hardware, Peripherals and Troubleshooting

Objective: Computer and its peripherals

Question: 4

Which of the following is a pointing device that consists of specialized surface that can translate the motion and position of a user's fingers to a relative position on screen?

- A. Trackpad
- B. Trackball
- C. Light pen
- D. Keyboard

Answer: A

Explanation:

A touchpad is a pointing device that consists of specialized surface that can translate the motion and

position of a user's fingers to a relative position on screen. It is also known as trackpad. It is a common feature of laptop computers and also used as a substitute for a computer mouse where desk space is scarce. It may vary in size but is rarely made larger than 40 square centimeters (about 6 square inches). It can also be found on personal digital assistants (PDAs) and some portable media players, such as the iPod using the click wheel.

Answer option B is incorrect. The trackball was invented by Tom Cranston and Fred Long staff as part of the Royal Canadian Navy's DATAR system in 1952. Trackball is a pointing device consisting of a ball held by a socket containing sensors to detect the rotation of the ball. It's like an upside down mouse with an exposed protruding ball. The user rolls the ball with the thumb, fingers, or the palm of the hand to move the cursor. Large trackballs are common on CAD workstations for easy precision. Small trackballs are common on portable computers. Some small trackball clips onto the side of the keyboard and have integral buttons with the same function as mouse buttons.

Lesson: Computer Hardware, Peripherals and Troubleshooting

Objective: Computer and its peripherals

Question: 5

Which of the following is a hardware device that handles an interface to a computer network and allows a network-capable device to access that network?

- A. USB
- B. Network interface controller
- C. Network interface device
- D. PS/2

Answer: B

Explanation:

A network interface controller (NIC, also known as network interface card) is a hardware device that handles an interface to a computer network and allows a network-capable device to access that network. The NIC has a ROM chip that contains a unique number, the media access control (MAC) address burned into it. The MAC address identifies the device uniquely on the LAN.

Lesson: Computer Hardware, Peripherals and Troubleshooting

Objective: Computer and its peripherals

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