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Quiz 1 Questions

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Multiple Choice

0.0/1.0 point (graded)

Which statement is true?

- ☐ To disconnect a device from a two bit bus only read and write control should be disabled.
- ☐ Address line in Bus is Bidirectional
- ☐ Interface is only responsible for transmitting analog to digital signal
- ☐ Control Line in Bus is responsible for carrying binary data
- ☒ All of the mentioned

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Multiple Choice

1.0/1.0 point (graded)

Suppose two devices A and A' are communicating with a two bit data bus. In the bus controller e is used for read enable and f is used for write enable, also e and f are for A alongside e' and f' are for A'. Now if you want to disconnect A entirely from the system, what should you do?

- ☐ e = 1, f = 0.
- ☐ e = 1, f = 1.
- ☒ e = 0, f = 0.
- ☐ e' = 0, f' = 0.

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Multiple Choice

1.0/1.0 point (graded)

What is the main issue that differentiate high level and low level devices?

- ☒ Processing ability.
- ☐ Application.
- ☐ Characteristics of I/O devices.
- ☐ Cost.



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Multiple Choice

1.0/1.0 point (graded)

Which of the following is false about External Bus Interface?

☐ It can use serial transmission.

☐ It can use parallel transmission.

☒ It is faster than internal buses.

☐ All of the above.

☐ None of the above.



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Multiple Choice

1.0/1.0 point (graded)

Which of the following statement is true:

☐ HDMI has a lower refresh rate.

☐ Low resolution and high interference in HDMI.

☐ HDMI cannot carry both audio and video signals in single cable wire.

☐ VGA doesn't need Digital to Analog and Analog to Digital Conversion.

☒ HDCP encryption facility in HDMI.

☐ HDMI has more data loss than VGA.



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Multiple Choice

1.0/1.0 point (graded)

Let's say it takes 1ns to transfer 1 bit from cpu to ram using a port. If you transfer the data using 8-bit parallel ports. How much time will it take to send 32 bits of data?

ns = nano seconds

☐ 32ns

☐ 4ms

☐ 16ns

☒ 4ns



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Multiple Choice

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Which mode of transmission is preferable for low frequency of data and long distance data transfer?

☐ Parallel Transmission.

☒ Serial Transmission.

☐ Both of them.

☐ None of them.



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Multiple Choice

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Which type of cable is used as an Ethernet port for long distances and without signal booster?

☐ Shielded.

☐ Twisted.

☒ Fiber Optic.

☐ Coaxial.



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Show Answer

Multiple Choice

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Suppose two devices D and D' are communicating. They are connected with a two bit data bus. For D, e is used for control read operation and f is for write operation. Similarly for D' e' and f' is being used for reading and writing operation. What would be the condition if D wants to write data to D'?

☐ $e = 1, f = 0, e' = 0, f' = 1$

☒ $e = 0, f = 1, e' = 1, f' = 0$

☐ $e = 1, f = 1, e' = 1, f' = 0$

☐ Communication is not possible



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Multiple Choice

1.0/1.0 point (graded)

Suppose there are three components : CPU, Main Memory and a Monitor are connected. Now which of the following statements are true (If multiple, apply them all) :

☐ CPU is connected with keyboard via internal bus.

☐ Memory sends address to CPU through internal address bus for addressing purpose.

☒ CPU is connected with monitor via external bus.



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Multiple Choice

1.0/1.0 point (graded)

You have connected a new gaming controller to your computer but it couldn't recognize it, however it is working on your friend's pc. It might be because:

☒ The software driver required for the controller is not present in your computer.

☐ The controller is faulty.

☐ Your friend uses an expensive GPU but you don't.

☐ You didn't plug in the cable properly to your computer's port.



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Multiple Choice

1.0/1.0 point (graded)

Which statement is true for a calibration circuit?

☐ A sensor output is the input of it.

☐ It interfaces at low level devices.

☐ The output of it is the input for a microcontroller.

☐ It converts non-electrical signals to electrical signals for further processing by the Processing unit.

☒ All of them mentioned above.



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Multiple Choice

1.0/1.0 point (graded)

The purpose of a hardware port is to provide:

☐ Security

☐ Data Encryption.

☒ Data Transfer.

☐ None of the above.



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Multiple Choice

1.0/1.0 point (graded)

Which of the following statements is true?

- ☒ BIOS provides the initial instruction of loading operating system to RAM.
- ☐ Software drivers cannot identify the peripheral components like keyboard, mouse, webcam, etc.
- ☐ Things on the hard drive need to be located, read and sent to ROM before they can be processed.
- ☐ The CPU can run the programs directly, which are stored in the computer's hard-drive / hard-disk.



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Multiple Choice

1.0/1.0 point (graded)

Which of the following are the types of HDMI?

- ☒ Type D.
- ☐ Type I.
- ☐ Type F.
- ☐ Type Z.



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