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Quiz 2 Questions

Quiz due Mar 1, 2022 18:35 +06

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Multiple Choice

1 point possible (graded, results hidden)

If the Microcontroller wants to send a 8 bit output to Port C, which of the following option of pin values is true?

☐ A0 = 0, A1 = 0, WR' = 0, RD' = 1☒ A0 = 0, A1 = 1, WR' = 1, RD' = 0☐ A0 = 1, A1 = 0, WR' = 0, RD' = 1☐ A0 = 0, A1 = 1, WR' = 0, RD' = 1☐ A0 = 1, A1 = 0, WR' = 1, RD' = 0

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You have used 1 of 1 attempt

Answer submitted.

Multiple Choice

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If we want to use all three ports of the 82C55 as I/O ports, which mode should be used for all three ports?

☐ Mode 1☐ Mode 2☐ Bit Set/ Reset Mode☒ Mode 0

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Multiple Choice

1 point possible (graded, results hidden)

Which pins are used to transfer data from the Data Bus Buffer to the Microprocessor?

☐ PA0 - PA7.☒ D0 - D7.☐ WR0 - WR7.☐ PC0 - PC7.

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Multiple Choice

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If we want to use the 8 pins of Port C as output for 8 buzzers (Output Device), which of the following control signals is correct?

☐ 11010011☒ 10000000☐ 10001001☐ 01111111

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Multiple Choice

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What does the following control word represent, 00100001?

- ☒ The CPU is writing to Port A and reading from Port C.
- ☐ PC1 is set to 1.
- ☐ PC0 is set to 1.
- ☐ The CPU is writing from port-B and reading from port-C.

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 Answer submitted.


Multiple Choice

1 point possible (graded, results hidden)

Suppose, the Port A of 82C55 is connected with a hard drive. Now, Which of the following statement is true?

- ☐ Port B can be configured for Mode 1 or Mode 0
- ☐ Port C pins 6 and 7 can work as I/O
- ☐ Port B can only be configured for Mode 1
- ☒ Port C pins 4 and 5 can work as I/O

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 Answer submitted.


Multiple Choice

1 point possible (graded, results hidden)

When does the OBF signal go high?

- ☐ When CPU enables the write signal to send output to port-A.
- ☒ When the output device responds with an ACK signal.
- ☐ When the data has been written in the output port.
- ☐ When PC7 is set to 1.

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 Answer submitted.


Multiple Choice

1 point possible (graded, results hidden)

If we want to interface an 82C55 with the keyboard and mobile, which step has to be done first?

- ☐ Enable RD pin to receive data from port A.
- ☐ Enable RD pin to receive data from port B.
- ☒ Write a word in the control register to program 82C55.
- ☐ To check either port C is handshaking properly or not

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 Answer submitted.

Multiple Choice

1 point possible (graded, results hidden)

Why are the inputs buffered mainly in Mode 0?

- ☐ To store the Input bits
- ☐ To cancel the noise from input
- ☒ As the buffer can hold 8 bits at a time
- ☐ to wait for handshaking

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 Answer submitted.

Multiple Choice


1 point possible (graded, results hidden)

Which Signal initiates the Input Handshaking?

- ☐ Interrupt
- ☐ Strobe
- ☒ Input Buffer Full
- ☐ Read

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 Answer submitted.

Multiple Choice

1 point possible (graded, results hidden)

If we want to send a High signal specifically from the pin 3 of Port C, what should be the control bits to configure the 82C55 IC?

- ☐ 01010110
- ☐ 10110111
- ☐ 01110111
- ☐ 10010111
- ☒ 01110101

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 Answer submitted.

Multiple Choice


1 point possible (graded, results hidden)

What would happen with port-A and C if the control word is: 10001011?

- ☐ Keyboard can be added in port-A and Mouse can be added in port-C.
- ☒ Printer can be added in port-A and LED can be added in port-C.
- ☐ Touchscreen can be added in port-A and Seven-segment display can be added in port-C.
- ☐ LEDs can be added in port-A and switch can be added in port-C.
- ☐ Switches can be added in port-A and LEDs can be added in port-C.

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 Answer submitted.

Multiple Choice


1 point possible (graded, results hidden)

If the IC 82C55 is configured with 10101001, can we connect a Keyboard with port C?

- ☒ Yes
- ☐ No

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 Answer submitted.

Multiple Choice

1 point possible (graded, results hidden)

For Input Handshaking, which signal is sent from the 82C55 to the interfaced device?

- ☐ Strobe Signal.
- ☐ Interrupt Request
- ☒ Input Buffer Full.
- ☐ Interrupt Enable Signal.

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Multiple Choice

1 point possible (graded, results hidden)

What should be the control bits if we connect a pendrive to Port A and a microphone to Port B?

☐ 1011x10x.

☒ 11xxx11x.

☐ 11x0x01x.

☐ 1010x10x.

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Answer submitted.

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