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## Quiz 2 Questions

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### Multiple Choice

1 point possible (graded, results hidden)

When the microprocessor receives an Interrupt signal from the 82C55 IC in Output Handshaking for port A, which one of the following control signals should be True?

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

Submit

You have used 1 of 1 attempt

Answer submitted.

### Multiple Choice

1 point possible (graded, results hidden)

For Bit Set-Reset mode, which of the following control register values is correct if we want to Reset PC6?

☐ 00011010☐ 00010101☒ 00011100☐ 01011101

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You have used 1 of 1 attempt

Answer submitted.

### Multiple Choice


1 point possible (graded, results hidden)

Suppose you have connected an Ipad to port-A and a printer to port-B. How many ports from port-C can you use for I/O?

☐ 5.☐ 3.☒ 0.☐ 2.

Submit

You have used 1 of 1 attempt

 Answer submitted.

### Multiple Choice


1 point possible (graded, results hidden)

If the value of the pin STB (Strobe Input) falls to low level, then:

- ☐ Interrupt gets disabled.
- ☒ It indicates input data is loaded into buffer.
- ☐ It indicates the input buffer can't accept more data.
- ☐ All of the above.

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You have used 1 of 1 attempt

 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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You have used 1 of 1 attempt

 Answer submitted.

### Multiple Choice


1 point possible (graded, results hidden)

If the control bits for 82C55 is 10111101, which of the following is false?

- ☒ Port C Pin 4 and 5 are configured as Inputs.
- ☐ There is only one interrupt pin for both Port A and Port B.
- ☐ Port C lower pins can not take inputs.
- ☐ Both input and output handshaking can take place.

Submit

You have used 1 of 1 attempt

 Answer submitted.

### Multiple Choice

1 point possible (graded, results hidden)

When the microprocessor receives an Interrupt signal from the 82C55 IC in Input Handshaking for port B, which one of the following control signals should be True?

- ☐ A1=0, A0=0, WR'=0.


☐ A1=0, A0=1, RD'=1.

☐ A1=1, A0=0, RD'=0.

☒ A1=0, A0=1, RD'=0.

Submit

You have used 1 of 1 attempt

 Answer submitted.

### Multiple Choice

1 point possible (graded, results hidden)

What is the bit length of data that can be transferred between the 82C55 and the interfaced device at a time?

☒ 1 byte.


☐ 3 byte.

☐ 32 byte.

☐ 16 byte.

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You have used 1 of 1 attempt

 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.

Submit

You have used 1 of 1 attempt

 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

Submit

You have used 1 of 1 attempt

 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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You have used 1 of 1 attempt

 Answer submitted.

### 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.


☐ 1111x11x.

☒ 1000x11x.

☐ 1010x10x.

Submit

You have used 1 of 1 attempt

 Answer submitted.

### Multiple Choice

1 point possible (graded, results hidden)

Suppose you want to program the control register, which one of the following control signals should be True?

☐ R=0,W=1,CS=0,A0=1,A1=1.


☐ R=1,W=0,CS=1,A0=1,A1=1.

☒ R=1,W=0,CS=0,A0=1,A1=1.

☐ R=1,W=1,CS=0,A0=1,A1=1.

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You have used 1 of 1 attempt

 Answer submitted.

### Multiple Choice

1 point possible (graded, results hidden)

For Output Handshaking, when is the OBF signal disabled?

☒ When the ACK signal is received from the device.

☐ When the INTR signal is sent to microcontroller.

☐ When the microcontroller enables Write pin.

☐ When the microcontroller sends data to the designated port.

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You have used 1 of 1 attempt

**i** Answer submitted.

### Multiple Choice

1 point possible (graded, results hidden)

Which Port C pins are available for I/O when the control bits for configuring 82C55 is 10101101?

☐ PC6, PC7.

☒ PC4, PC5.

☐ PC0, PC1, PC2.

☐ PC5, PC6.

Submit

You have used 1 of 1 attempt

**i** Answer submitted.

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