

Question

1.0/1.0 point (graded)

The programmable peripheral I/O port is another name for:

☐ serial input-output port

☒ parallel input-output port

☐ serial input port

☐ parallel output port

✓

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Show Answer

Question

1.0/1.0 point (graded)

The input provided by the microprocessor to the read/write control logic is:

☒ Reset

☒ A1

☒ WR (Active low)

☐ CS (Active high)

☐ All of the above

✓

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Question

1.0/1.0 point (graded)

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

☐ Interrupt gets disabled

☒ It indicates input data is loaded into into buffer

☐ It indicates input buffer can't accept more data

☐ All of the above

✓

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Question

1.0/1.0 point (graded)

The feature of mode 2 of 8255 is:

☐ Port A and B can operate in mode 2.

☐ We can connect an android mobile for data transfer in port B in mode 2 configuration.

☒ If port A connects with Tablet PC and port B with LEDs, then there are empty pins of port C available for I/O.

☐ All of the above

✓

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Question

1.0/1.0 point (graded)

How many pins are available of Port C, when port A is in Mode 2, and Port B connects with a printer?

☐ 3

☒ 0

☐ 5

☐ none of the above

✓

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Question

2.0/2.0 points (graded)

What is the meaning of the control word: 10110110

☐ Both Port-A and Port-B can be used for normal input or output device.

☒ Both Port-A and Port-B can be used for handshaking input device.

☐ All the pins of Port-C(upper) and Port-C(lower) can be used for normal output device

☒ Port-C is used for handshaking for the devices connected on Port-A and Port-B and also there are some pins available for I/O operation

✓

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Question

1.0/1.0 point (graded)

If a user wants to set PCS, what should be the value of the control word register? NB: Just write the status of CWR, for example if answer is 11X11X10, just write it. If there is any dont care condition, use block letter "X" as I used.

0XXX1011

✓

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You have used 1 of 1 attempt

?

Hint

i

Show Answer

Question

2.0/2.0 points (graded)

Let's assume a scenario, A mobile is connected to port A and a keyboard is connected to port B of 8255. Here handshaking or interrupt will be used. Now give the following answers.  
What is the value of the Control Word Register in this scenario? NB: Just write the value of Control Word Register, for example if answer is 101X011X, just write it. If there is any dont care condition, use block letter "X" as I used

11XXX11X

✓

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You have used 1 of 2 attempts

?

Hint

i

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Question

1.0/1.0 point (graded)

If we swap the ports, that means if we connect mobile in Port B, and Keyboard in Port A, will there be any problem? What do you think?

Yes

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Question

1.0/1.0 point (graded)

From the above scenario:

Here Port A is configured as

☐ Simple Input/output mode

☐ Strobed I/O mode

☒ Bi-directional I/O mode

☒ Mode 2

✓

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Question

1.0/1.0 point (graded)

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

☐ Enable RD pin to receive data from port A

☐ Enable RD pin to receive data from port B

☒ Send proper value to CWR to configure 8255

☐ To check either port C is handshaking properly or not

✓

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You have used 1 of 1 attempt

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Question

1.0/1.0 point (graded)

When does the IBF (Input Buffer Signal) get disabled?

☐ When Keyboard will finish sending data to 8255

☒ When MPU will finish taking data from the port of 8255 through its data bus

☐ When 8255 will interrupt MPU through INTR signal

☐ None of the above

✓

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Question

1.0/1.0 point (graded)

What 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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