BRAC UNIVERSITY Department of Computer Science and Engineering

Examination: Quiz

Duration: 35 minutes

Semester: Summer 2023

Full Marks: 15

CSE 360: Computer Interfacing

ID:

Section:

1.	(CO3) Suppose, we connected a microphone device with the Port A. In which mode the port A
	is? Explain the step by step process taking place when there is data communication between the

microphone and the microprocessor mentioning the required pins with the timing diagram. [5]

Marks]

Name:

2. **(CO3)** Considering an external memory is connected to the IC 82c55. Is it possible to connect a mouse and 1 LED to the interfacing IC at the same time? **Write** the reasons to support your claim. **[3 Marks]**

3.	(CO3) Suppose, a soundbox is connected to the IC 82c55 port A. Also, a scanner and 2
	LEDs are connected to the Interfacing IC as well. Write the control word to configure the
	IC. [3 Marks]

4. Suppose, the port B of 82C55 is connected to a speaker. Which of the following set of pins will help to play music?

a) Group A pins

b) Group B pins

c) Port B pins, PC0, PC1, PC2

d) PB0 - PB7, PC1, PC2, PC3

5. Suppose a digital tab is connected to the port A of 82C55 and port A is acting as an input port. Now if the microcontroller wants to send data to the tab, what will cause the change of port A acting as an output port?

a) Control bits

b) disconnecting the pendrive and reconnecting it again

c) Clock pulse

d) reset of 82C55

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

a) R'=0, W'=1, CS'=0, A0=1, A1=1.

b) R'=1, W'=0, CS'=1, A0=1, A1=1

c) R'=1, W'=1, CS'=0, A0=1, A1=1

d) R'=1, W'=0, CS'=0, A0=1, A1=1

7. What does the following control word represent, 00100000?

a) The CPU is writing to Port A and reading from Port C.

b) PC1 is set to 1

c) PC0 is set to 0

d) Port A mode 1 and in output