Quiz 2

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
Hyderabad Campus, Second Semester 2020-2021
CS/ ECE /EEE/ INSTR F241 Microprocessor Programming & Interfacing
Quiz-2 (Open Book)
Date: 01/04/21 Max Marks : 15
Day: Thursday Time :9.15 – 9.45 AM

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* Required

To have multiprocessing capabilities of the 8086 microprocessors, which of the following pins should be connected to the ground. 1 point

- ○ DEN'
- ○ ALE
- ○ INTR
- ◉ MN/MX'

Clear selection

Match the following 1 point

(a) NMI	(1) CLD
(b) READY	(2) CALL
(c) ES	(3) OUT
(d) RET	(4) ISR

- ○ a-2, b-1, c-3, d-4
- ○ a-1, b-4, c-3, d-2
- ○ a-3, b-4, c-1, d-2
- ◉ a-4, b-3, c-1, d-2

Clear selection

Match the following 1 point

Type of Interrupt	Physical address of CS
(a) NMI	(1) 00002H
(b) Divide by zero	(2) 00006H
(c) Overflow	(3) 0000AH
(d) Single step	(4) 00012H

- ◉ a-3, b-1, c-4, d-2
- ○ a-3, b-2, c-4, d-1
- ○ a-4, b-3, c-1, d-2
- ○ a-1, b-2, c-3, d-4

Clear selection

What will be the OP Code for the following instruction? 1 point

Address	Instruction
0139	JMP 11E

- ○ EB E2
- ◉ EB E3
- ○ EB E4
- ○ EB E5
- ○ None of the above

Clear selection

The Programmable interrupt controller is used to 1 point

- ○ Handle one interrupt request
- ◉ Handle one or more interrupt requests at a time
- ○ Handle one or more interrupt requests with a delay
- ○ Handle no interrupt request

Clear selection

If a 30 MHz Crystal is connected to 8284 A, and with F/C' connected to ground, the (i) EFI output , (ii) Peripheral Clock output and (iii) Clock output for 8086 will be 1 point

- ○ 30 MHz, 15 MHz and 15 MHz respectively
- ○ 15 MHz, 10 MHz and 5 MHz respectively
- ◉ 30 MHz, 5 MHz and 10 MHz respectively
- ○ 30 MHz, 7.5 MHz and 15 MHz respectively
- ○ Other:

Clear selection

If a processor is working at 5 MHz and the memory access time is 750ns. The number of wait states required will be_____, considering an address set-up time of 110ns, data set-up time of 40 ns with a latching and buffer delays of 30ns. 1 point

- ○ 1
- ◉ 2
- ○ 3
- ○ 4
- ○ None of the above

Clear selection

Match the following 1 point

Match the following:

(a) Size of IP	(1) External address bus
(b) Size of ALU	(2) Word length
(c) Size of accessible memory	(3) Internal data bus/2
(d) Size of AL	(4) Internal address bus

- ○ a-1, b-2, c-4, d-3
- ○ a-3, b-2, c-1, d-4
- ◉ a-4, b-2, c-1, d-3
- ○ a-4, b-1, c-2, d-3

Clear selection

Which of the following interrupt request in independent of IF flag status? 1 point

- ○ NMI
- ○ TRAP
- ○ DIVIDE BY ZERO
- ◉ ALL OF THESE

Clear selection

For an 8086 processor, if the clock is operated at 5 MHz, the 1 machine cycle completes in_____ sec. 1 point

- 200 ns
- 400 ns
- 600 ns
- 800 ns
- Other:

Clear selection

What will be the OP Code for the following instruction? 1 point

Address	Instruction
0161	JMP 1AA

- EB 43
- EB 45
- EB 47
- EB 49
- NONE OF THE ABOVE

Clear selection

What is the duration of the bus cycle in an 8088 based microcomputer if the clock is 8 MHz and two wait states are inserted? 1 point

- ○ 500 ns
- ◉ 750 ns
- ○ 250 ns
- ○ 800 ns

Clear selection

Processor senses an interrupt 1 point

- ○ Immediately when the interrupt signal occurs
- ○ After each machine cycle
- ◉ After each instruction cycle
- ○ After an interval as set by the programmer

Clear selection

List the memory control signals together with their active logic levels that occur when a word of data is written to memory address A000016 in a minimum-mode 8086 microcomputer system. 1 point

- ◉ BHE’ = 0, A0 = 0, WR’ = 0, M/IO’ = 1, DT/R’ = 1,
- ○ BHE’ = 1, A0 = 0, WR’ = 0, M/IO’ = 1, DT/R’ = 1,
- ○ BHE’ = 0, A0 = 0, WR’ = 0, M/IO’ = 1, DT/R’ = 0
- ○ BHE’ =1, A0 = 0, WR’ = 0, M/IO’ = 1, DT/R’ = 0

Clear selection

The physical memory address in the vector table corresponding to INT 50 is:- 1 point

- (●) IP : 000C8h, CS: 000CAh
- ( ) CS : 000C8h, IP: 000CAh
- ( ) IP : 00032h, CS: 00034h
- ( ) CS : 00032h, IP: 00034h

Clear selection

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