				2202	- 3		
1.	Write the	correct answer	set during which	h conditio	nr		
b	Write the correct answer  Auxiliary carry flag of 8051 is set during which condition?  Auxiliary carry flag of 8051 is set during which condition?						
	a) When carry is generated from D3 to D4. b) When carry is generated from D6 to D7. c) When carry is generated from D3 to D4 and from D6 to d7 both. c) When carry is generated from D3 to D4 and from D6 to D7.						
	b) When ca	irry is generated i	DA ar	nd from D6	to d7 both.		
	c) When ca	rry is generated t	1011103 10	D4 or from	m D6 to D7.		
	d) When ca	rry is generated f rry is generated (	either from D3 (C	enst Mic	rocontroller?		
c)	What is the	address range o	f Internal Ram o	H di Nor	ne of these.		
	A COURSE OF THE PERSON NAMED IN	ELL BY MORETO FF	n. U 0011		10		
-41	Which of th	ne following archi	tecture uses pip	elining	of these		
u,	a) 8085	b) 8051	c) 8086	d) Nor	ne of these.		
-1	Manu manu	b) 8051 interrupt sources	are available in	8051 micr	ocontroller		
e)		b) 3	c) 4	d) 5	10	set.	
	a) 2	088 can be opera		tep when	15	set.	
f)			c) DF	d) AF			
	a) TF	b) IF					
B)	The control	word to set PC0	Dit of 8255 iii b.	d) 03H	4		
	a) 01H	b) 02H	c) 00H	hud been	for in the serial por	ting?	
h)	Which of th	e following is the	most common	y used but	ffer in the serial por		
	a) LIFO	b) FIFO	c) FILO	מן נוננ	,		
1)	TEST input i	n 8086 micropro	cessor is used b	y which ins	struction		
			-\ hath of th	1050	d) hone of these.	ble register?	
n	of 8051 microcontroller is not a bit addressable register						
1)	a) TCON	b) TMOD	c) SCON		d) IE		
4.1	Activities to the Control of the Con						tion
k)	Direction flag is used for		b) Transfer of	operation	c) String operatio	on d) Logical opera	tion
	a) Arithmetic operation  How many address and data is						
1)			ines does 250	d) 4 ar	nd 4		
	a) 8 and 8	b) 8 and 4	c)4 and 8	u/ 4 a	10 4		
m)	Instruction (	Queue of 8088 co			- Cabasa		
	a) 4 data	b) 6 data	c) 8 data	d) non	ne of these.		
2.	(a) Evolain	physical memo	ry formation o	f 8086 m	icroprocessor.		
2.	What is the	advantage of s	egmentation?				
•	Evolain min	imum mode of	operation of 8	086 micro	oprocessor.		
3.							
	Write single instruction to perform the following operations.						
4.	to a sement the content of CA DV I						
	a.	Came the cont	ent of BX to a	memory	location in the dat	ta segment with offse	t 0234H.
	b.	Copy the content of 4000H offset to DX register.					
	c.	Mask lower 4 bit of AL register.					
	d.	Divide the content of AL by 2.					
	e.						
			peration of 83	55 PPI w	ith necessary diag	gram.	
5. E	xplain mode	1 input mode o	peration of oz			surveyer (KO)	
			inter of ONE1 o	nicrocont	roller.		
6. E	xplain TCON	and TMOD reg	ister or goat i	inci ocom	40-400.0000		

- a) Describe different addressing modes of 8086 microprocessor.
  - b) Design and interface between 8086 CPU and two chips of 16K x 8 EPROM and two 32K x 8 RAM. The RAM address must start at 0000H. Select the starting address of EEPROM suitably.
  - 8. a) Explain the Flag register of 8086 microprocessor.
    - b) Interface ADC 0808 with 8086 using 8255 PPI. Use port A of 8255 for transferring digital data output of ADC to the CPU, port B and port C for control signals. Assume that an analog input is present at I/P 0 of the ADC. Draw the schematic and write required ALP.
    - 9. a) An 8086 system with an 8255 interfaced at port A address FOH, has a block of 50 data bytes stored in it. Another 8086 system with another 8255 interfaced at port A address 80H has a another block of 50 data bytes stored in it. Interchange these blocks of data bytes between two 8086 systems. Draw the necessary hardware scheme and write the necessary sequence of instructions. Both system runs of the
    - b) Write the differences between microprocessors and microcontrollers.
    - masking all other 10. a) Initialize the 8237 for memory to memory transfer mode, using channel 0, channels. Initialize the 8237 for normal timing, fixed priority, extended write with DREQ and DACI active high. The 8237 work in auto initialization mode, with address increment, block mode select with read transfer on channel O. Further write a program to transfer a data block of size 4KB available a 5000H:0000H to 5000H:1000H. The address of the command register is F8H.
    - b) Write a program to move data words from offset 2000H to offset 4000H. The length of the string is OFH.
      - 11. a) Describe internal RAM structure of 8051 Microcontroller.
    - Explain PSW register of 8051 microcontroller.
    - Explain IE and IP register of 8051 microcontroller. c)
      - 12. Write short notes on any three of the following.
      - a) 8288
      - b) 8284
      - c) SCON of 8051 microcontroller.
      - d) Difference between 8086 and 8088
      - e) Delay of 100ms.