MH-BOARD

MODEL QUESTION PAPER SET- 1 : 2021 - 22

MM :	: 50		COMPUTER	R SCIENCE Paper – II (THEORY)	Time: 3 Hrs
Entir	re Syllabus				
Q.1.((A) Select the co	rrect alternati	ve and rewrite :	:	(4)
i.		is a Not a Micro	oprocessor.		1
	(a) 8086	(b) 8080	(c) Pentium	(d) 8048	
ii.	i	1			
	(a) MOV	(b) XRA	(c) CMP	(d) RRC	
iii.	If cable lengt	1			
	(a) Router	(b) Hub	(c) Repeater	(d) Modem	
iv.	i	1			
	(a) DAA	(b) INX	(c) RAL	(d) SIM	
(B)	Answer any	tow of the follo	owing:		(6)
i.	Differentiate	between Micro	controller and M	ficroprocessor.	3
ii.	Explain follo	-			
	 Stack poin 		ccumulator	3. ALU	3
iii.	Write short n	otes on Co-axia	al cable.		3
Q.2.	(A) Answer any				(6)
i.	Explain func 1. READY	tions of followi 2. IO	ng pins: D/M	3. SOD	3
ii.	Explain in br	rief 80286 and 8	0486 processor	in brief	3
iii.	-	of a microcont	_		3
(B)	Answer any	one.			(4)
i.	Draw labeled	l internal block	diagram of 8085	5.	4
ii.	Explain in brief programming model of 32-bit microprocessors				
Q.3.((A) Answer any	two:			(6)
i.	Explain any	three addressing	g modes of 8085		3
ii.	Explain in sh	ort.			3
	1. star topolo		us topology	3. Ring topology	
iii.	Distinguish b	etween LAN ar	nd WAN		3
(B)	Answer any	(4)			
i.	•	•	•	and their branching addresses.	4
ii.	_		processors in ter		4
	 Dual pipel 	ining 2. P	refetching	3. Branch prediction 4. Internal Cache	2

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0.4.((A) Answer any two:	(6)				
i.	What is protocol? Explain in brief TCP/IP protocol.	3				
ii.	Explain structure of Fiber optic cable.	3				
iii.	Explain in brief Flag register of 8086.	3				
(B)	Answer any one:	(4)				
i.	Explain following instructions:	4				
	1. XCHG 2. XTHL 3. CPI 4. RNZ					
ii.	Short note on Characteristics of Communication media.	4				
Q.5.((A) Answer any two:	(10				
i.	Write an Assembly language program to multiply two numbers stored at 1051H and 1052H.					
	Store the result in 1053H and 1054 H.	5				
ii.	Write an Assembly language program to count how many numbers in a data block are					
	multiples of 2. The data block consists of 50 bytes, stored from 20A0H.					
	Store the count at 3000H.					
iii.	Write an Assembly language program to transfer data block stored from location 1021H to 1035H					
	to new location starting from 2000H onwards.					
	OR					
Q.5.((A) Answer any two:					
i.	Write an Assembly language program to add two 16-bit numbers stored at location 2001H					
	and 2003H. Store the sum starting from address 2005H onwards.					
ii.	Accumulator contains value C5H and Register B consists of value 73H. What will be contents of Accumulator					
	and value of Sign and Carry flag bits, when following instructions work independently.					
	i. CMP B ii. ADI 32H iii. CMA iv. XRA B v. ADD B					
iii.	Write an Assembly language program to count how any locations in a memory block have					
	value 2AH. The memory block starts at location 2001H. The length of the block is stored in location					
	2000H. Store the count at 3001H					

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