$[1 \times 10 = 10]$



1. Answer any ten of the following:

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Paper Code : EC403 Microprocessor & Microcontrollers UPID : 004430

Time Allotted : 3 Hours Full Marks :70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

	(1)	What is an opcode?		
	(11)	What is the use of ALE?		
	(111)	What is a microcomputer?		
	(IV)	What is the microcontroller and microcomputer?		
	(V)	What is meant by wait state?		
	(VI)	How many interrupts does 8085 have mention them		
	(VII)	What is memory mapping?		
	(VIII)	What is I/O mapping?		
	(IX)	Give the register organization of 8085?		
	(X)	What is interfacing?		
	(XI)	How the 8085 processor differentiates a memory access (read/write) and 1/0 access (read/write)?	ı	
	(XII)	Why status signals are provided in microprocessor?		
Group-B (Short Answer Type Question)				
		Answer any three of the following:	[5 x 3 = 15]	
2.	Wha	it is vectored and Non- Vectored interrupt?	[5]	
3.	What is masking and why it is required? [5]			
4.	What are the operations performed by ALU of 8085? [5]			
5.	Whi	Which interrupt has highest priority in 8085? What is the priority of other interrupts? [5]		
6.	Whe	ere is the READY signal used?	[5]	
Group-C (Long Answer Type Question)				
		Answer any three of the following:	[15 x 3 = 45]	
7.	Explain the features of 8085 in detail. [1			
8.		How does the microprocessor differentiate among positive number, a negative number and a bit pattern?	[5]	
	(b)	List the components of microprocessor (single board microcomputer) based system	[5]	
	(c) I	Define machine cycle.	[5]	
9.		te an assembly language program to convert a two digit BCD(8-bit) to binary data.	[15]	
10.		ain timing diagram in details	[15]	
		w the Timing diagram for INR M	[15]	
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*** END OF PAPER ***