Time: 3 hours Max. Marks: 80

Note:

•	Question	1 i	s compu	lsory.

- Solve any three from Q2 to Q6.
- All questions carry equal marks.

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Q1.	Solve any four from question no.1	(20)
A	Explain the features and Applications of Embedded system.	5
В	Explain Microprocessor vs. Microcontroller	7 5
C	Write short note on Real Time Operating System.	
D	Write the difference between C and Embedded C.	
\mathbf{E}	Explain classification of Computer Architecture	
		7
Q2.		(20)
A	Explain the addressing modes of 8051 assembly language.	
В	Explain the architecture of 8051 with the help of block diagram.	10
Q3.		(20)
A	Explain the use of embedded system in designing home automation systems.	10
В	Explain the concept of function in Embedded C programming with an example.	10
45		
Q4.		(20)
A	Explain Looping statements in Embedded C with example.	10
В	Explain Arithmetic and Logical operators.	10
Q5.		(20)
A	Explain the different types of registers used in 8051 Microcontroller.	10
B	How Seven Segment Display (SSD) interface with 8051 Microcontroller?	10
76g, 1	Explain in details.	
Q6.		(20)
A	Explain Design challenges and common design metrics of Embedded systems	10
B	What is Assembly Language Programming? List and explain logical operators	10
	in assembly language.	
	What is Assembly Language Programming? List and explain logical operators	10

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