Total No. of Questions: 4

SEAT NO	
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S.E. INSEM / APR- 2022

S.E. (IT)

214451: Processor Architecture

2019 Pattern - Semester-II

Time: 1 Hour] [Max. Marks: 30

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, and Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

			Marks
Q1	a	Draw and explain the architecture of PIC18F458	7
	b	Explain any four instructions of PIC18 with example.	8
		OR	
Q2	a	What are various oscillator options in PIC18? Explain any two.	7
		Write a note on config register.	
	b	What is the role of a microcontroller in an embedded system?	8
		Explain different selection criteria of microcontroller for an	
		embedded system.	
Q3 a	a	In the PIC18F458, how many pins are designated as I/O port pins?	7
		Draw the pin diagram of PIC18F458.	
	b	Explain working of Timer 1 as timer and counter in detail.	8
		OR	
Q4	a	How many pins are designated as PORTB in the 40-pin DIP	7
		package? What are their numbers? Explain PORTB pins with multi	
		functions if available.	
	b	Explain in detail Timer2 SFRs.	8