Total	No. o	of Questions : 8] SEAT No. :
P76	59	[Total No. of Pages : 2
		[5870]-1075
		T.E. (E&TC)
C	2019	EMBEDDED PROCESSORS Pattern) (Semester - II) (304195(D)) (Elective - II)
Time	: 21/2	Hours] [Max. Marks: 70
Instr	uctio 1)	ns to the condidates. Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
	2)	Neat diagrams must be drawn whenever necessary.
	3) 4)	Figures to the right indicate full marks. Assume suitable data, if necessary.
Q 1)	a)	Write algorithm or flowchart to generate triangular waveform using DAC
		of LPC2148 [4]
	b)	List the features of ON chip ADC of LPC2148. [6]
	c) 🔊	Draw and Explain interfacing of EEPROM using I2C communication to LPC2148. Draw flowchart to read and write data in EEPROM. [8]
		OR O
Q2)	a)	Write features of DAC in LPC2148. [6]
	b)	Write down the features of VART of LPC2148 write algorithm to transmit
		character 'P' to PC. [8]
	c)	Compare ARM cortex M3 with ARM7TDMI. [4]
		200
Q 3)	a)	Compare ARM cortex M3 with ARM7TDMI. Explain CMSIS standard. Write features of STM32F4XX processor. Compare ARM Cortex A, M and R. OR [8]
	b)	Write features of STM32F4XX processor. [5]
	c)	Compare ARM Cortex A, M and R. [5]
		OR
Q 4)	a)	Explain different peripherals in STM32F4XX. [8]
	b)	Enlist different clocks of STM32F4XX. [5]
	c)	Compare ARM Cortex M3 with ARM cortex M4. [5]
		28.
		P.T.O.
		V*

