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S.E. (IT) (II Semester) EXAMINATION, 2019 PROCESSOR ARCHITECTURE AND INTERFACING (2015 PATTERN)

Time: Two Hours

Maximum Marks: 50

- N.B. :- (i) Answer Q. No. 1 Or Q. No. 2, Q. No. 3 or Q. No. 4, Q. No. 5 Or Q. No. 6, Q. No. 7 or Q. No. 8.
 - (ii) Neat diagrams must be drawn wherever necessary.
 - (iii) Figure to the right indicate full marks.
 - (iv) Assume suitable data, if necessary.
- 1. (A) Explain with diagram the logical to linear address translation mechanism of 80386 microprocessor. [7]
 - (B) What are assembler directives? Explain any two directives used in 80386 programming. [5]

Or

- 2. (A) Differentiate between Near and Far Procedure. [4]
 - (B) State any four features of 80386 microrocessor. [2]
 - (C) Explain non-pipelined bus cycle for READ operation with neat diagram. [6]

P.T.O.

3.	(A)	Explain any three addressing modes of 8051 microcontrol	ller
		with one example.	[6]
	(B)	Draw and explain support registers CR0 – CR3 of paging operate	ion
		of 80386 microprocessor.	[6]
		Or	
4.	(A)	Explain fault, trap and abort.	[6]
	(B)	What is the significance of the following pins of 80)51
		microcontroller ?	[6]
	×	(i) PSEN#	
		(ii) ALE	
		(iii) EA#.	
5.	(A)	List operating modes of Timer of 8051 and explain any t	two,
		of them.	[7]
	(B)	Explain vectored interrupts available in 8051 with diagram, th	eir
		vectored addresses and their priority.	[6]
		Explain vectored interrupts available in 8051 with diagram, the vectored addresses and their priority. Or	
6.	(A)	Explain significance of TMOD and TCON registers.	[7]
	(B)	Explain any three of the following:	[6]
		TB8 RB8 TI RI REN	
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- 7. (A) Explain external memory of size 64 kB (both program and data) interfacting with 8051. [6]
 - (B) Draw interfacing diagram of DAC with 8051. Write ALP to generate triangle wave. [7]

Or

- 8. (A) Explain ADC interfacing with 8051. Explain significance of any two interfacing control signals. [6]
 - (B) Praw and explain I/O mode and BSR mode control word formats of PPI 8255. [7]