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VRK/KS/14/3250

Faculty of Engineering & Technology Eighth Semester B.E. (Computer Engg.) Examination ADVANCED MICROPROCESSORS AND MICROCONTROLLERS

Sections-A & B

Time—Three Hours	Time-	-Three	Hours]
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[Maximum Marks-80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Answer THREE questions from Section A and THREE questions from Section B.
- (3) Due credit will be given to neatness and adequate dimensions.
- Assume suitable data wherever necessary.
- Retain the construction lines.

SECTION-A

- Explain in detail the internal architecture of 8086.
 - Differentiate between:
 - 8085 and 8086
 - 8086 and 80386.

Explain addressing modes of 8086 with example.

Write 8086 ALP to move string of data words from offset 1234 H to offset 5678 H, the length of string is 10.

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3.	(a)	Explain the functional block diagram of 8272 in de	tail. 7
	(b)	Explain 8086 – 8255 – Printer interfacing in det	
		F 1' d 11 1 1' 2000= 4 44	
4.	(a)	Explain the block diagram of 8087 and explain	
		co-operation with 8086.	9
	(b)	Write short note on bus arbiter.	4
5.	(a)	Write an ALP to find volume of a sphere usi	ing
		8087 instruction.	6
	(b)	Explain the following instructions of 8087:	
		(i) FPTAN	
		(ii) FLDPI.	4
	(c)	Explain various data formats of 8087.	4
		SECTION-B	
6. (a) Illustrate real and protected mode of 80386		ith	
		example.	8
	(b)	Explain flag register of 80386.	5
7.	7. (a) Explain the significance of Virtual and Cache me		ory
		concept.	6
	(b)	Explain architecture of 80486.	8
8.	(a)	Explain new flag added to pentium.	3
	(b)	Explain Pentium memory management in detail.	7
	(c)	Give the interrupt sturcture of 8051.	3
9.	(a)	Explain all SFR's of 8051.	8
	(b)	Explain watch dog timer of 8097.	5
10.	(a)	Explain in brief 8097 architecture.	7
	(b)	Write an 8051 ALP to find the greatest data by	yte
		in a block.	6
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