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QP Code: 5615 MICROPEOTESOR

((3 Hours) 1) Question no. 1 is compulsory. 2) Attempt any three questions from the remaining five questions. 3) State assumptions wherever necessary	[Total Marks :89
(a) (b)	er the following:- Compare Harvard and Von-Neumann architecture What do you understand by segmentation in 8086 Explain the following instructions (i) PUSH BX	20
(d)	(ii) STOS B (iii) CBW (iv) TEST (v) XLATB Explain the status register of 8087	
2. (a)	Draw and explain architecture of 8086 in details Explain the Read and Write cycle of 8086 in minimum mode.	10 10
	Design an 8086 based system for the following specifications:- (i) 32KX8 RAM (ii) 32X8 ROM (iii) 8255 for simple I/O	15
(b)	WAP to find area of a circle with radius $r = 4.2$ cms using 808	5
4. (a) (b)	Distinguish between minimum mode and maximum mode. State and explain the various priority modes of 8259	10 10
5. (a) (b)	Explain the various data types used in 8087 Write a program to check whether the string is a palindrome	10 10
6. Write	short notes on any four of the following:- (i) DMAC 8237 (ii) Interfacing of 8036 and ADC (iii) Memory banking in 8086 (iv) Bus controller 8238 (v) Addressing modes in 8086	

MD-Con. 8238-15.

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