T. E.= I- Sem. Biomedical
Microprocesser (16)

TE/D/BM/CEGS/MICROPROTEINR QP Code: 5615

(3 Hours)	[Total 3.4.
N.B.: (1) Question no. 1 is compulsory.	[Total Marks:89
(2) Attempt any three questions from the remaining five questions.	
(3) State assumptions wherever necessary	
1. Answer the following:-	20
(a) Compare Harvard and Von-Neumann architecture	20
(b) What us you understand by segmentation in 2006	
(c) Explain the following instructions	
(i) PUSH BX	
(ii) STOS B	
(iii) CBW	
(iv) TEST	
(v) XLATB	
(d) Explain the status register of 8087	
Total Togister Of 808/	
2. (a) Draw and explain architecture of 8086 in details	10
(b) Explain the Read and Write avole of sook in details	10
(b) Explain the Read and Write cycle of 8086 in minimum mode.	*
3. (a) Design an 8086 based system for the following specifications:-	15
(i) 32KX8 RAM	
(ii) 32X8 ROM	*
(iii) 8255 for simple I/O	
(b) WAP to find area of a circle with radius $r = 4.2$ cms using 808	5
of a diffic with familis $r = 4.2$ cms using 808	7
4. (a) Distinguish between minimum mode and maximum mode. (b) State and explain the resident control of the resident control	10
(b) State and explain the various priority modes of 8259	10
indus priority modes of 8259	1,2°00
5. (a) Explain the various data types used in 8087	10
(b) Write a program to check whether the string is a palindrome	10
6. Write short notes on any four of the following:-	20
(i) DMAC 8237	
(ii) Interfacing of 8036 and ADC	
(iii) Memory banking in 8086.	<u>.</u>
(iv) Bus controller 8288	
(v) Addressing modes in 8086	
	72