No. of Printed Pages: 2

BICS-012

P.T.O.

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

00114

BICS-012

Term-End Examination June, 2014

BICS-012: MICROPROCESSOR

Maximum Marks: 70 Time: 3 hours Note: Attempt any seven questions. Each question carriesequal marks. Discuss the memory segmentation used in 8086 1. programming. microprocessor State the 10 advantages of memory segmentation. Show the location of data in memory, after 2. execution of each of these instructions, if the 10 content of registers are given as: $DS = 1112_{H}$, $AX = EE78_{H}$ and $BX = 3400_{H}$ MOV [0422H], AL (a) MOV [0424H], AX (b) MOV [BX], AX (c) 10 Interpret the following instructions: 3. SUB CL. BYTE PTR [SI] (a) DEC WORD PTR [SI] (b) (c) SAL dest, count IDIV L (**d**) (e) DAA

4.	(a)	Write down the steps required for the	
		following conversions:	
		(i) Primary to ASCII	
		(ii) ASCII to Primary	
	(b)	What is the role of the direction flag in string instructions? Give an example. 5×2	=10
5.		is software interrupt and hardware rupt? How many hardware and software rupts can 8086 support? Describe in detail.	10
6.		neat timing diagram explain the interrupt wledgement cycle of 8086 microprocessor.	10
7.		ss Mode-2 operation of 8255A. Give its ol word and Status word format.	10
8.		ss the salient features of 8279. Give its tdiagram.	10
9.		ss the software and hardware features of microprocessor.	10
10.		ss the upgradations in Pentium processor 0486 microprocessor.	10