## MCA 102: Sytems Programming Minor - Sep'2017

**Duration: 1 Hour** 

## Maximum Marks: 15

				(1)
سلر	Give the content of PSW regis	ve the content of PSW register after subtracting 4AE0 from 5D90.  Dw does the assembler distinguish between the types of unconditional branch instructions?		
2.	How does the assembler distinguish between the types of unconditional blands			
بعدا	Discuss the instruction pointer of 8086.			(3)
4	Explain memory segmentation and the use of segment registers in 8080.			(3)
<i>√</i> 5.	Given that (IP) = 2BC0 (BX) = 1200 (275B9) = 098A	(CS) = 0200 (DS) = 212A	Displacement = $5119$ (224A0) = $0600$	

Find the branch address for a branch instruction-that uses:

- (b) Intrasegment indirect addressing which uses the BX register and register addressing.
- (c) Intrasegment indirect addressing which uses the BX register and register relative addressing.

Write a complete assembly language program that will convert 16-digit packed BCD number beginning at PACKED to an unpacked BCD number and store the result beginning at UNPACKED. Also, show the allotted space and initialized data for your program.

16 digit

6000 6

01 02 03 04