YENISI - V : APRIL / MAY - 2014

Subject : I.T. Elective-IV c) Assembly Language programming

Day : Thursday
Date : 19/06/2014

S.D.E. 19199

Time : 02.00 P.M. TO 05.00 P.M.
Max Marks : 80 Total Pages : 1

N.B.:

1) Solve **ANY FIVE** questions from section-I and **ANY TWO** questions from section-II.
2) Figures to the **RIGHT** indicate full marks.
3) Answer to both sections should be written in the **SAME** answer book.

SECTION-I

Q.1 Explain the structure of assembly language program. **[10]**

Q.2 Describe various shift operations with suitable examples. **[10]**

Q.3 Explain the architecture of 8086 microprocessor. **[10]**

Q.4 Differentiate between: **[10]**
a) Compiler and Assembler
b) Instructions and Directives

Q.5 Describe the following: **[10]**
a) JMP Instruction
b) MOV Instruction
c) CMP Instruction

Q.6 Explain various data types in an assembly language with examples. **[10]**

Q.7 Write short notes on **ANY TWO** of the following: **[10]**
a) CALL and RETUN Instruction
b) Floating point Representation
c) Indirect Addressing

SECTION-II

Q.8 Solve **[15]**
a) Find the 2's complement of 11111111.
b) $(11001100)_2 = (?)_{10}$
c) 101.11* 11.01
d) 11111111 - 10101010

Q.9 Write an assembly language program to generate Fibonacci series. **[15]**

Q.10 **a)** Write an assembly language program to display "Hello" on monitor. **[08]**

b) Write an assembly language program to multiply to eight bit numbers. **[07]**

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