BCSL-022(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

01453

Term-End Practical Examination

December, 2016

BCSL-022(P)/S2 : ASSEMBLY LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two **compulsory** questions of 20 marks each in this paper. Rest 10 marks are for viva-voce.*

(ii) Use any assembler or emulator of 8086 assembly language to run the programs.

1. Write and run a program using 8086 assembly language that interchanges the values stored in two 16-bit words. You may assume that both the words are stored in memory locations. *20*

2. Write and run a program using 8086 assembly language that finds the sum of lower four bits of a byte array of six elements stored in memory. For example, if the byte array in memory contains

01101000 10010001 10010011 01110011 01111101 00110111,

then the program should add

00001000 00000001 00000011 00000011 00001101 00000111

to get the result 00100011. This result should be left in AL register. *20*