

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

Term-End Practical Examination

December, 2017

00342

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 adds the upper and lower 4 bits of AL register using BL and DL registers. For example, if AL register contains 01010010, then the program should separate the upper 4 bits and the lower 4 bits in BL and DL registers respectively so that BL will contain 00000101 and DL will contain 00000010. The program then adds these registers. The result should be put in AL register. 20

 2. Write and run a program using 8086 assembly language that locates the first instance of a value '10h' in a byte array stored in the memory. The output of the program should be the offset in the array. The output should be left in CL register. For example, if a memory array contains 00h, 05h, 51h, 10h, 22h, 10h, then the program should output 03h which should be in CL register. 20
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