

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

00274

Term-End Practical Examination

December, 2014

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 converts an ASCII digit stored in a memory location into an equivalent binary number. The binary number should be stored in CH register. For example, if memory location contains ASCII equivalent of digit 5, then CH register will get the value 0000 0101. 20

2. Write and run a program using 8086 assembly language that searches for a value in an array of 5 elements. The array should be a byte array stored in the memory locations. In case the value is found in the array then location of the element is put in the BL register, else 0 is put in the BL register. For example, if array in the memory is

	05	07	1A	09	71	
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(all numbers are in hexadecimal)

and you are looking for $(05)_h$ then output of the program will be 1 which will be stored in the BL register. 20