

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

Term-End Practical Examination

02995

June, 2017

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.*
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1. Write and run a program using 8086 assembly language that converts a single digit decimal value stored in byte memory location to equivalent ASCII value. For example, if the memory location contains a value 00000101, then the program converts it to ASCII character '5'. The ASCII value is left in AL register. 20
2. Write a program using 8086 assembly language that finds the first zero value stored in a byte array of 5 elements stored in the consecutive memory locations. The output of the program should be index of the location, which should be stored in DL register. Use the following data for the program :

Array should contain (values is hexadecimal)

55h, 25h, 00h, 10h, 00h

The output of the program should be index value 2 (index value of 55h may be assumed to be zero). This index value must be stored in DL register. 20
