

**BACHELOR OF COMPUTER APPLICATIONS (BCA)  
(Revised)**

**Term-End Examination**

01388

**June, 2016**

**BCSL-022 - Set - 4 : ASSEMBLY LANGUAGE  
PROGRAMMING LAB**

*Time : 1 hour*

*Maximum Marks : 50*

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- Note :**
- (i) *There are two compulsory questions in this paper of 20 marks each. 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 exchanges the byte values stored in two different memory locations only if the value stored in first location is higher than the second location. For example if the two memory locations contain  $(25)_h$  and  $(15)_h$  respectively then the values will be exchanged to  $(15)_h$  and  $(25)_h$  respectively as first value is higher than the second. 20
  
  2. Write and run a program using 8086 assembly language that multiplies every element of an array by 2. The resultant array is also stored in memory. You may assume both the arrays (original and resultant) to be byte arrays of 5 elements each. Ignore any overflow. 20
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