

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

Term-End Practical Examination

December, 2017

00172

BCSL-022(P)/S4 : ASSEMBLY LANGUAGE PROGRAMMING LAB

Time : 1 Hour

Maximum Marks : 50

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- 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 finds the (distance)² between two points. A point is stored in two consecutive locations (byte) with the first location as x-coordinate and the second location as y-coordinate. You must store two such points in memory and find the (distance)² using the formula $(\text{distance})^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2$.

You must store the (distance)² value in AX register.

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2. Write and run a program using 8086 assembly language which finds the sum and average of five consecutive byte numbers stored in the memory. You must use looping to write this program. The result must be stored in BX register (sum) and DL register (average).

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