BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

June, 2014

BCSL-022(P)/S1 : ASSEMBLY LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two compulsory** questions 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.

1. Write and run a program using 8086 assembly language that checks if the values stored in AL register and BL register are same. If both the values are same, the program output is "SAME", otherwise it outputs nothing. *20*

2. Write and run a program using 8086 assembly language that adds value 0000 0101 in each value of an array of 5 elements containing binary values 0000 1101, 0000 1111, 0001 1111, 0000 1110, 0001 1010. This array should be in the memory. *20*

BCSL-022(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

00184

Term-End Practical Examination

June, 2014

BCSL-022(P)/S2 : ASSEMBLY LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

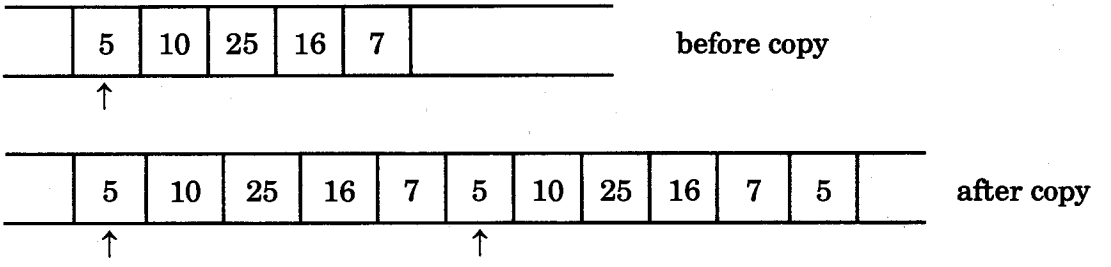
Note : *(i) There are **two compulsory** questions of 20 marks each. Rest 10 marks are for viva-voce.*

(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 clears the upper 4 bits of AL register. For example, if AL register contains 0110 0101 then after the program is run AL register will contain 0000 0101. *20*

2. Write and run a program using 8086 assembly language that copies an array of size 5 stored in memory to another memory location. *20*

   For example, if memory stored



   Please note that actual values stored in memory are binary. The decimal values are shown for illustration purpose only.

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

00587

Term-End Practical Examination

June, 2014

BCSL-022(P)/S3 : ASSEMBLY LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two compulsory** questions 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.

1. Write and run a program using 8086 assembly language that separates the upper and lower 4 bits of the data stored in BL register. The result is stored in AH and AL register. For example, if BL register contains :

0110 1001 then after the program is run

AH register will contain 0000 0110

and AL register will contain 0000 1001 *20*

2. Find the largest of the numbers stored in an Array of size 7. The program stores the largest number in AL register. For example, if any array contains 5, 10, 20, 1, 6 then the program should bring 20 in AL register. Please note that the actual data will be binary. The decimal values are shown for illustration purpose only. Also note that array should be stored as byte array in the memory. *20*

No. of Printed Pages : 1

BCSL-022(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)

00364

(BCA)

Term-End Practical Examination

June, 2014

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

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two compulsory** questions 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.

1. Write and run a program using 8086 assembly language that multiplies a number 0001 1001 stored in AL register by a number 0000 0100 using shift operation. *20*

2. Write and run a program using 8086 assembly language that finds the length of an array in AL register. The array stores integers in the range 1 to 20. The array is terminated by putting 0 as the last value. For example, if the array 1, 2, 5, 7, 5, 0 has a length of 5. Please note that values are to be stored as binary. The decimal values are shown for the purpose of illustration only. Also note that array should be stored in memory. *20*