

**2015**

**MCA**

**2nd Semester Examination**

**MICROPROCESSOR LAB**

**PAPER—MCA-207**

**(Practical)**

*Full Marks : 100*

*Time : 4 Hours*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

Answer any *one* question (by Lottery basis) 1×60

1. Write an ALP to find the largest number from a set of 8 bit numbers.
2. Write an ALP to find 2's complement of a 8 bit number.

(Turn Over)

3. Write an ALP to add two 8 bit numbers. (sum 16 bit).
4. Write an ALP to find the square of a number using Look up table.
5. Write an ALP to transfer a block of data from one section of memory to another.
6. Write an ALP to search a number from a set of 8 bit numbers.
7. Write an ALP to sort a set of 8 bit numbers in ascending order.
8. Write an ALP to count the number of 1's in a data byte.
9. Write an ALP to check whether a number is even or odd.
10. Write an ALP to exchange a set of data with another set of data.
11. Write an ALP to subtract two 8 bit numbers. (Result 16 bit).

12. Write an ALP to find the smallest number from a set of 8 bit numbers.
13. Write an ALP to find 1's complement of a set of 8 bit numbers.
14. Write an ALP to find the cube of a number using Look up table.
15. Write an ALP to sort a set of 8 bit numbers in descending order.
16. Write an ALP to find 2's complement of a set of 8 bit numbers.
17. Write an ALP to clear a block of memory locations.
18. Write an ALP to calculate  $1 + 2 + 3 + \dots + n$ .
19. Write an ALP to multiply two 8 bit numbers.
20. Write an ALP to add a set of 8 bit numbers. (Result 16 bit).

Viva-Voce —	30
PNB —	10

**Marks Distribution**

1. Programming — 10%
  2. Storing, execution of the program and results — 20%
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