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 $1 + 2 + 3 + \ldots + n$.

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%