2017

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 *two* questions (by Lottery basis)   2×35

1. Write an ALP to exchange a set of data with another set of data.

2. Write an ALP to sort a set of 8 bit numbers in ascending order.

3. Write an ALP to multiply two 8 bit numbers.

4. Write an ALP to check whether a number is even or odd.

5. Write an ALP to count the number of 1's in a data byte.

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 descending order.

8. Write an ALP to find 2's complement of a set of 8 bit numbers.

9. Write an ALP to count the number of 0's in a data byte.

10. Write an ALP to find 1's complement of a set of 8 bit numbers.

11. Write an ALP to add a set of 8 bit numbers.

12. Write an ALP to transfer a block of data from one section of memory to another.

(Continued)

13. Write an ALP to find the largest number from a set of 8 bit numbers.

14. Write an ALP to find the square root of 0, 1, 4, 9, 16 using Look up table.

15. Write an ALP to find the square of a number (not greater than 5) using Look up table.

16. Write an ALP to add two 16 bit numbers.

17. Write an ALP to subtract two 16 bit numbers.

18. Write an ALP to find the smallest number from a set of 8 bit numbers.

19. Write an ALP to find the highest number from a set of 8 bit numbers.

20. Write an ALP to divide a number by another number.

Viva-Voce   —   20

Practical Note Book   —   10

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