ST. JOSEPH'S EVENING COLLEGE (AUTONOMOUS)

II SEMESTER BCA EXAMINATIONS - APRIL 2019

MICROPROCESSORS

Duration: 2.5 Hours

SECTION - A

I) Answer any SIX of the following questions.

- 1. What is a microprocessor?
- 2. Write an 8086 program to add two 16-bit numbers and store the result in location 0500H.
- 3. What are the different flags is 8086? Write the functions of them.
- 4. Write any two arithmetic instructions & logical instructions with their functions. Give the syntax with one example each.
- 5. What is a program status word?
- 6. Mention the different types of instructions responsible for data transfer.
- 7. Mention the characteristics of the cmp instructions.
- 8. What is TRAP, RST 6.5, RST 7.5?

SECTION - B

II) Answer any FOUR of the following questions.

- 9. Explain the registers of 8086.
- 10. Explain the differences between CALL and JMP instruction of 8086 microprocessor with program examples.
- 11. Write an ALP in 8086 to find sum of numbers in array.
- 12. Draw the pin diagram of 8086.
- 13. Describe the action taken by 8086 when NMI interrupt pin is activated.
- 14. Explain why we need interfacing.

SECTION - C

III) Answer any TWO of the following questions.

- 15. Explain the addressing modes of 8086 with the help of examples.
- 16. Draw and explain the architecture of 8086.
- 17. Draw the Block diagram of 8257 and explain the functions of each block.

Max. Marks: 70

(6x3=18)

(4x8=32)

(2x10=20)