(ELE5SB) **(3322–5B)**

B.Sc. DEGREE EXAMINATION,
NOVEMBER/DECEMBER 2020.

(Advance Supplementary)

Third Year — Fifth Semester

Electronics

Paper VI(a) — MICROPROCESSOR SYSTEMS

Time : Three hours Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE of the following.

1. Draw and explain the structure of program status word (PSW) of 8085.

2. Explain the evolution of microprocessor.

3. Explain flag manipulation instructions.

4. Write an assembly language program for the addition of two 16 bit numbers.

5. Describe programmable timers.

6. Explain branch instructions.

7. Write an assembly language program for the subtraction of two numbers.

8. Write a short note on keyboard and display interface.

SECTION B — (5 × 10 = 50 marks)

Answer ALL of the following.

9. (a) Draw and explain the architecture of INTEL 8085 microprocessor.

Or

(b) Draw the pin configuration of 8085 microprocessor and explain each pin in detail.

10. (a) Describe the architecture of 8086 microprocessor.

Or

(b) Explain different addressing modes of 8086 microprocessor with suitable examples.

11. (a) Explain different logical instructions.

Or

(b) Describe various arithmetic instructions.

12. (a) Write an assembly language program for the multiplication of two numbers.

Or

(b) Write an assembly language program to find largest number in an array.

13. (a) Explain minimum and maximum mode configurations of 8086 microprocessor.

Or

(b) Discuss about DMA controller.

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