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M.Tech.(ECE) (E-I) (Sem.-2) ADVANCED MICROPROCESSOR & EMBEDDED SYSTEMS

Subject Code: EC-510 M.Code: 36211

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- a. How physical address is generated in 8086 microprocessor? Explain it with diagram and an example.
 - Differentiate overlapped and non-overlapped memory segmentation.
- a. Write a program using 8086 microprocessor to count the number of 1's in a byte and assume the number and result stored in memory location.
 - Explain the following instruction of 8086 microprocessor.
 - i) XLAT
 - ii) DAA
 - iii) INC
 - iv) SHL
 - v) STD
- a. Write a program to add ten 16-bit numbers and result store at memory location.
 - Draw and explain the minimum mode configuration of 8086 Microprocessor .
- Draw and explain the internal architecture of 8086 microprocessor in details.

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- a. Draw and explain the interfacing diagram of A/D convert with 8086 microprocessor.
 - Write the program to display 'Embedded' on the LCD display by using 8086 microprocessor.
- a. Explain the Pentium Architecture with the help of diagram.
 - Explain the addressing modes of 80186 microprocessor with suitable example.
- a. Draw and explain the interfacing diagram of DMA with 8086 microprocessor.
 - Draw and explain the block diagram of universal synchronous receiver transmitter.
- 8. a. What are the different challenges related to an embedded system development?
 - b. Explain the various interrupts of 8086 microprocessor.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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