

## COURSE TITLE: MICROPROCESSOR & MICROCONTROLLERS

Q 1. Consider the least significant 4 digits of your student ID. (For Example, let's say your student id is 1234567, then the 4-least significant digit is 4567). [5 + 2.5 + 2.5 = 10 Marks]

- Convert 4-Least Significant decimal digit of your student ID to binary equivalent.
- Convert the binary number of above (a) to hexadecimal & octal number format.

Q 2. Differentiate between Microprocessor & Microcontroller with suitable block diagram (Minimum 5 relevant differences). [5 + 2 = 7 Marks]

Q 3. A long word of 5 bytes of data, 0x12345ABCDE is to be stored in memory location 0x10000A00. Fill the table below following the endianness mentioned. [2.5 + 2.5 = 5 Marks]

Little Endian	
Address	Data
0x10000A00	
0x10000A01	
0x10000A02	
0x10000A03	
0x10000A04	

Big Endian	
Address	Data
0x10000A00	
0x10000A01	
0x10000A02	
0x10000A03	
0x10000A04	

Q 4. Explain the function of the following 8086 microprocessor input/output pins in detail. [2x 4 = 8 Marks]

- a. ALE (Pin 25)      (b) RD' (Pin 32)      (c) NMI (Pin 17)      (d) RESET (Pin 21)

# Microprocessor And Microcontrollers Solved Papers

**RC Schank**



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