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]

a. Convert 4-Least Significant decimal digit of your student ID to binary equivalent.
b. 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, 0x1234SABCDE 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

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Microprocessor And Microcontrollers Solved Papers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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