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LEADING QUESTIONS:

1. How many number of I/O ports are there in an 8051 microcontroller?
   Ans: The 8051 microcontroller has 4 I/O ports: Port 0, Port 1, Port 2, and Port 3.

2. What is the maximum on-chip ROM on 8051?
   Ans: The maximum on-chip ROM (Read-Only Memory) on an 8051 microcontroller can vary, but typically it ranges from 0 KB to 8 KB, depending on the specific variant of the 8051 chips.

3. What is DPTR?
   Ans: DPTR (Data Pointer) is a special register in the 8051 microcontroller that consists of two 8-bit registers, DPH (Data Pointer High) and DPL (Data Pointer Low). It is used for accessing external data memory and is commonly used for accessing large data arrays.

4. What are alternative functions of Port3 in 8051 microcontroller.
   Ans: Port 3 in the 8051 microcontroller can serve alternative functions based on the specific chip's features. These functions may include serial communication (UART), external memory interfacing (address and data bus), and interrupt inputs.

5. What is PCON register?
   Ans: The PCON (Power Control) register in the 8051 microcontroller is used to control power modes and includes flags related to power-down and wake-up operations. It also includes the watchdog timer control bit for system reset and sleep modes.