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**Thermal and Automobile Engineering**  
**Important 10mark Questions**

**Unit I**

1. Draw the architecture of 8051 and briefly explain.
2. With necessary example, explain in brief about any five arithmetic instructions.

**Unit II**

1. Explain the different addressing models of 8051 in detail.
2. Write an assembly language program to find the biggest number in a given array of ten numbers.

**Unit III**

1. Explain in detail about the programming of 8051 timer O.
2. Write about the operating modes of timer/counter with a neat diagram.

**Unit IV**

1. Write about PCON register and SCON register.
2. How will you program 8051 to transfer and receive data serially?

**Unit V**

1. Explain the interfacing of stepper motor with 8051 in detail.
2. Explain seven segment LED display interfacing with 8051.