OBA-2

1. Explain with a neat block diagram the characteristics and working of Timer in Mode1.
2. Write an 8051 C program to toggle only bit P1.5 continuously every 50 ms. Use Timer 0, mode 1 (16-bit) to create the delay.
3. Write an 8051 C program to transfer the message “GOOD” serially at 4800 baud, 8-bit data, 1 stop bit. Do this continuously.
4. Interface 16x2 LCD with 8051 Microcontroller and develop an Embedded ‘C’ program to display the string “WELCOME”.
5. Program the 8051 in C to receive bytes of data serially and put them in P2. Set the baud rate at 4800, 8-bit data, and 1 stop bit.