



c)	With example program, differentiate between JUMP and CALL instructions	<b>06</b>
<b>UNIT 3</b>		
4a)	Write the steps to program timer 0 in mode 1 with an example program	<b>08</b>
b)	Write an 8051 C program to toggle only bit P2.4 continuously without disturbing the rest of the bits of P2.	<b>06</b>
c)	Analyze the following and identify the timer/counter modes, when TMOD is loaded with the following values. Also write the format of TMOD register. i) TMOD=12h ii) TMOD=51h iii) TMOD=42 h iv) TMOD=62h	<b>06</b>
<b>OR</b>		
5a)	Write the steps in programming the 8051 to transfer data serially	<b>08</b>
b)	Write a program for the 8051 to transfer letter "A" serially at 4800 baud, continuously	<b>06</b>
c)	Write an 8051 'C' program to monitor bit P1.5. If it is high, send 55H to P1, otherwise send AAh to P2.	<b>06</b>
<b>UNIT 4</b>		
6a)	Explain the different interrupts of 8051. Show how the priority can be altered by the programmer.	<b>08</b>
b)	Assuming that INT 1 pin is connected to a switch that is normally high, write an embedded C program to turn the LED whenever it goes low. The LED is connected to P1.3 and is normally off. As long as the switch is pressed low, the LED should be on.	<b>06</b>
c)	Explain the actions taken by the microcontroller when an interrupt occurs.	<b>06</b>
<b>UNIT 5</b>		
7a)	Explain with a neat diagram, LCD interfacing to 8051 and write a program to display "Hello World"	<b>10</b>
b)	Interface DAC808 to 8051 and write an embedded C program to generate triangular and square waveforms	<b>10</b>

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