



TIME: 75 minutes **DATE: 28-12-2021** **MAX.MARKS:20**

MAX.MARKS:20

1	A	Illustrate a neat block diagram of the 8051 Microcontroller.	2
	B	Write a program to toggle an I/O pin every 1.5 second using timer interrupts. Assume XTAL = 16MHz.	3
	C	With interfacing diagram, write an 8051 ALP to control the stepper motor, by assuming code sequence is stored in a memory location pointed by DPTR. Use suitable delay routine and comment on each of instructions used.	5
2	A	Generate an asymmetrical square wave at the pin no. 18, 19, 20, and 21 of LPC 2148 Port0.	2
	B	Discuss the timer unit of LPC2148 with block diagram.	3
	C	With neat diagram explain the operating modes of ARM.	5
