

SDM College of Engineering & Technology, Dharwad – 2
Department of Computer Science & Engineering
Improvement Assessment

Semester & Branch : IV Sem. CSE (A & B Division)
Course Code & Title: 22UCSC402 PCPI
Course Instructors : Prof.Nita K/Prof. Sharada H N

Date: 14 -06-2024
Time: 12.30-1.30pm
Max.Marks: 20

Note: Answer any one from Q1 and Q2. Q3 is compulsory.

- Q.1. a) Write a program to interface LPC2148 microcontroller to blink the LED's alternatively. [Marks 5: CO 5]
- b) Explain the working of 8257 DMA with neat diagram. [Marks 5: CO1]
- Q.2. a) Write a program to interface LPC2148 ARM 7 processor to rotate DC motor thrice in clockwise and five times in anti-clockwise. [Marks 5: CO 5]
- b) Explain the block diagram of 8259 interrupt controller. [Marks 5: CO1]
- Q.3. a) Explain registers associated in programming GPIO's in LPC2148 ARM7 processors (PINSEL, IOSET, IOCLR & IODIR). [Marks 5: CO 5]
- b) Illustrate the operating modes of 8255 Programmable Peripheral Interface. [Marks 5: CO1]