CD	Poll	No
3.B.	KOII	INO

PROGRAMMABLE LOGIC CONTROLLERS AND MICROCONTROLLERS 6th Exam/Elect/EEE/5228/4452/Nov'17

	6 th Exam/Elect/EEE/5228/4452/Nov'17	
Durat	ion: 3Hrs. M.I	Marks:75
	SECTION-A	
Q1. Fi	ll in the blanks.	15x1=15
a.	A very commonly used method of programming PLCs is based on the use of	
b.	PLCs have limited as compared to computers and have fixed F	or a particular PLC.
c.	is a technique often used when planning a program after a written	description has
	been developed.	
d.	instructions are used to copy a data from one location to another.	
e.	In register addressing mode Lies in a register and is specified by name	of register.
f.	The data transmission can be or or	
g.	The Method transfers a block of data at a time while the n	nethod transfers a
	single byte at a time.	
h.	UART stands for	
i.	Traffic light control system can be easily designed using With its vario	us features.
j.	The operation starts with input scan.	
k.	The CPU also called is the brain of PLC.	
I.	Instruction is used to determine if a Bit is off.	
m	. The process control application requires a particular sequence between	en two operations
n.	The Input instruction compares two words with each other.	
0.	The 8051 microcontroller has of RAM and of ROM.	
	SECTION-B	
Q2. A	ttempt any six questions.	5x6=30
į.	What is an assembly language programming?	
ii	How PLC differs from a computer?	
iii	What is Harvard architecture? Explain.	
iv	What are different types of PLC registers?	
V	Why 8051 is called 8-bit microcontroller?	
vi	How a microcontroller differs from a microprocessor?	
vii	What do you understand by BALANCED SLOPE detector?	
	SECTION-C	
Atten	npt any three questions.	3x10=30
Q3.	With the help of block diagram, explain the working of different blocks of 8051.	
Q4.	With the help of block diagram, explain the function of different blocks of PLC.	
Q5.	What are different addressing modes available in 8051? Explain them with exam OR	ples.
	Explain the memory organization of 8051.	
Q6.	Draw and explain the functional block diagram of PIC microcontroller.	