Total No. of Printed Pages:2

SUBJECT CODE NO:- B-2170 FACULTY OF SCIENCE & TECHNOLOGY B.Sc. T.Y (Sem-VI)

Examination November / December -2022 Electronics Paper- XIX (601) (Programmable logic Controllers)

		(1 Lugi allillia)	ole logic Controller	2)/	
[Time: 1:30 Hours]				[Max. Mark	s:50]
	Please	check whether you	have got the right q	uestion paper.	
N.B	1. Atte	empt all questions.	EL SOLE	Ship Ship	
				By My Block	
Q.1	Explain working of any five their symbols.	ve automatic switch	es as input devices a	and any five output devices with	20
			OR		
	What are delimiters, file ty files? Explain four types o	-		eference to addressing of data e.	5
Q.2	Enlist five categories of Pl diagram.	C instructions. Ex	plain five relay logic	e instructions with suitable Ladder	20
	diagram.	35	OR		
	777 1 1 7 1 B	C C 11			
	Write short notes on any fo	our of followings w	ith one example eac	n.	
	S. S.				
	A) JMP and JSR instruction	ons	94, Vol.		
	B) BSL instruction				
	C) ADD instruction		SY		
	D) EQU and NEQ instruc	tions			
	E) TOD and FRD instruct		A ST		
	F) CTU instruction)			
		(£)	34		
Q.3	Rewrite the followings by	selecting correct ar	nswer from given op	tions	10
	1. The two vertical lines	on the ladder are ca	lled as		
	a) Bus b) Bars	c) Rails d) Track	S		
Rope	2. In PLC data addressing	g, the number after	delimiter colon (:) is	3	
	a) Element b) Wor	d c) Bit d) File	3/200		
	3. There aretypes	of program files			
34	a) 2 b) 3 c) 4	d) 5			

4.	One element of data file has three words
	a) Input b) Output c) Bit d) Timer
5.	There are steps in processor scan cycle
	a) 2 b) 3 c) 4 d) 5
6.	In TON instruction, bit will remain Logic 1 as long as its input rung condition is true
	a) DN b) TT c) EN d) None
7.	In CTD instruction, bit will set to logic 1 when accumulated value becomes equal to present value
	a) CU b) CD c) DN d) OV
8.	For cascading of timers bit of first timer is used as input contact for second timer
	a) EN b) DN c) TT d) None
9.	SBR instruction is written at of subroutine
ζ.	a) Bottom b) Middle c) Bottom & Middle d) Top
10.	. The subroutine can be nested up to levels
	a) 1 b) 2 c) 3 d) 4