Total No. of Questions : 4]							90	S	EAT	No. :			
P8483										[Total N	o. of Pages	::1
OCT.22/BE/Insem-69													
			B	.E. (E	Electi	rical) (Se	emest	er -	VII))		
				C	PLC	CAN	ND S	CAD	A				
		(2	2019	Patte	ern)	(403	3143	A) (E	Electi	ive -	· III)		
Time	:1 H	lour]		7	2						[Ma	x. Marks :	30
Instr	uctio	ns to	the can	ididates	5:								
	<i>1</i>)	Ansy	wer Q.	1 or Q	2 , Q . 3	3 or Q.	. 4.						
	<i>2</i>)	Neat	t diagra	ıms mu	st be a	drawn	where	ever ne	cessar	y.	300		
	<i>3</i>)	Figures to the right indicate full marks.											
	<i>4</i>)	Assu	ıme sui	table de	ata, if	neces	ssary.			NO TO			
		26							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5			
Q 1)	a)	Expl	lain bei	nefits o	of Auto	omati	on.		J. V				[5]
	b) \(\)	State	e vario	us adva	antage	es and	l disac	vantag	es of	PLC.			[5]
	c)	List	the feat	tures of	f PLC	also e	xplain	in deta	ail CPI	U and	Powe	r Supplies.	.[5]
							OR	20,					
<i>Q2</i>)	a)	Wha	at is nec	essity o	of PLC	C?Als	so men	tion so	me of	the le	ading	manufactu	ires
		of P	LC.				9/						[5]
	b)	Draw the block diagram of a PLC showing the main functional items explain the functions of each block.									. \		
					,	VO.						X	[5]
	c)	Expl	lain ho	w to se	elect P	LC fo	or part	icular a	applica	ation.			[5]
					OXO								
<i>Q3</i>)	a)	Drav	w the bl	lock dia	gram	of an	analog	ginput	modul	e and	explai	n the parts.	.[7]
	b)	Com	npare o	f Hydra	aulic,	Pneu	matic	and El	ectrica	al act	uators.	?	[8]
							OR			7	2		
<i>Q4</i>)	a)	Wha	at are d	lifferen	it type	es of s	sensor	s? Exp	lain c	onstr	uction	and work	ing
		of any one temperature sensor with a diagram.									[7]		
	b)	Explain following two different types of							ncode	ers			[8]
		i)	Incren	nental					1				
		ii)	Absol	lute					0.				
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							7	*					