Printed	Pages-	4
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Roll No.

327652(27)

B. E. (Sixth Semester) Examination, April-May 2020

(New Scheme)

(EI Branch)

PROGRAMMABLE LOGIC CONTROLLER

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all question. Part (a) is compulsory in each question. Attempt any two out of part (b), (c) and (d) in each question.

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1. (a) What is ISO slots?

2

(b) Draw and explain block diagram of PLC.

7

Unit-III

2

3.	(a)	What is Counter?	2
	(b)	Explain off delay timer with example.	7
	(c)	Write the number comparison functions with application.	7
	(d)	Write short notes on :	7
		(i) Division and square root function	
		(ii) PLC trignometric and log function	
		Unit-IV	
4.	(a)	What are the differences between jump and strip	
		functions?	2
	(b)	Discuss BCD or multibit data processing in detail.	7
	(c)	Explain MCR function and its application.	7
	(d)	Describe a process requiring the nesting of two subroutines.	7

Unit-V

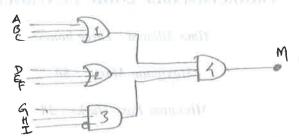
Unit-Ⅱ

[2]

2. (a) What is PLC scanning?

(d) Describe power supply section of PLC.

- (b) Explain PLC registers in detail. 7
- (c) Make a ladder diagram for given gate diagram 7



- (d) Create a ladder diagram for process fan is to run only when all of the following conditions are met:
 - (i) Input 1 is off.
 - (ii) Input 2 is ON or input 3 is ON or both 2 and 3 are ON.
 - (iii) Input 5 4 6 are both ON.
 - (iv) One or more of inputs 7, 8 or 9 is ON.

5 (a) What is SCADA?		2
(b) Compare DCS and PLC with application.		7
(c) Explain DAS with advantages.		7
(d) Describe basic block of DCS		7
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