

Code: 15MC42T

Register				
Number		7: "	 ()	

## IV Semester Diploma Examination, April/May-2018

## **INDUSTRIAL ELECTRONICS**

Time: 3 Hours]

[Max. Marks: 100]

Answer any six questions:

Explain the working and characteristics of DIAC.

Explain step down chopper.

Explain ladder diagram with an example.

Explain in-plant distribution with diagram.

- 5. Explain the following mechanically operated switch with neat diagram.
- 5

- (a) Float switch
- (b) Pressure switch
- 6. Explain solid state relays.

5

7. Explain pneumatic timer.

5

8. Explain the characteristics of servo motor.

5

9. Explain the operation of Brushless DC motor.

5

## PART – B

	Answer any seven full questions:	$10 \times 7 = 70$
10.	Explain the construction, working, characteristics of SCR.	10
11.	Explain the working of Full wave controlled rectifier.	10
12.	Explain UPS with a neat block diagram.	10
13.	Explain the following manually operated switch with neat diagram.	10
	(a) Toggle switch	
	(b) Push button	
	(c) Slide switch	•
	(d) Rotary switch	
	(e) Thumb wheel switch	
14.	Explain Magnetic Motor Starter.  FOXY ORO BY BETA CONSOLE	10
3 <sup>15.</sup>	Explain the operation of solenoid.	10
16.	Explain the variable frequency AC drive system.	10
17.	Explain the methods to control the speed of DC motor.	10
18.	Develop the control circuit and load circuit for motor starter using or using three wire method.	n/off switch
19.	Develop the control circuit and load circuit for motor to move in joggiboth in clockwise & anticlockwise direction.	ng / inching