

Time: 3 Hours |

Code	:	15EC01T
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[Max. Marks : 100

Register				
Number				

I Semester Diploma Examination, Nov./Dec. 2017

CONCEPTS OF ELECTRICAL & ELECTRONICS ENGINEERING

Note	 (i) Answer any six questions from Part-A. Each question carries 5-marks. (ii) Answer any seven questions from Part-B. Each question carries 10-marks. 	
	(ii) This wer any devel questions now a servery	
	PART-A	OLEI
1.	Define electric current, voltage and resistance. Write their SI units.	5
2.	State and explain Kirchoff's current law. Diploma Beta Console Educ	- [All Branches]
3.	Define:	5
	(i) MMF	
	(ii) Reluctance Diploma Ques	
4.	Explain RMS value and average value.	5
5.	An alternating current has a maximum value of current is 25 A. Find RMS value average value, form-factor and crest-factor.	. 5
6.	Explain the construction of transformer.	5
7.	Explain the need of spike busters for protection of computers.	5
8.	Define conductor, semi-conductor and insulator.	5
9.	Explain the working of C-filter.	5
	1 of 2 [Turn o	ver

Explain V-I characteristics of forward biased PN junction diode.

Explain UPS with block diagram. Name different type of batteries.

6

(b)

(a)

(b)

19.