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II Semester Diploma Examination, April/May-2016

BASICS OF SEMICONDUCTOR DEVICES

Tim	e : 3 Hours	[Max. Marks : 100
Note	(i) Answer any six questions from Part – A (5 > (ii) Answer any seven questions from Part – B (
1. 2.	PART – A Define conductor, insulator and semiconductor with a Explain in brief the different modes of operation of tr	BETA CONSOLE!
3.	Compare CB & CE transistor configurations.	Diploma - [All Branches] Beta Console Education 5
4.5.	List the applications of JFET. Explain the basic steps involved in the preparation of	
6.7.	Explain the physical structure of FET with a diagram List the features of LED.	Beta Console Education 5 5
8.	Write a short note on solar cells.	5
9.	Explain the working principle of TRIAC.	5
	PART – B	
10.	Explain the method of finding V-I characteristics of a	P-N junction diode. 10
11.	(a) Explain Zener breakdown.	4
	(b) Explain the application of diode as(i) Switch(ii) Voltage regulator	6
	1 of 2	[Turn over