

Time: 3 Hours]

Code: 15EC21T

Register Number	uoito	ani Na	ics of	oteris	uedo I-	Vi don	is (
-----------------	-------	--------	--------	--------	---------	--------	------

not stand Marks : 100 stand principle of NPN transistor.

II Semester Diploma Examination, Nov./Dec. 2017

## **BASICS OF SEMICONDUCTOR DEVICES**

	refine Alpha and Beta deduce the relation between them.	ð (d)
Note	(i) Answer any six (6) questions from Part-A. $(6 \times 5 = 30 \text{ marks})$	
	(ii) Answer any seven (7) questions from Part-B. $(7 \times 10 = 70 \text{ marks})$	(a) (b)
	xplain the application of transistor as a switch	ð, . (d)
	BETA C	ONSOLE!
1.	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	loma - [All Branches]
2.	Explain how the transistor can work as a switch.	onsole Education 5
. 8	splain the sex cang of CMOs invertor.	
3.	Compare CB and CE transistor configuration.	5
	Diplor Constitution of U.T.	f Gh
4.	Distinguish between BJT and FETS.	Education 5
	xulain the working principle of SCR with nest diagram.	
5.	Explain the constructional features of JFET.	(d) 5
	be the steps in fabricating monolithic IC's with diagram.	
6.	Explain the holding and latching currents of SCR.	5
	Meite a note on solar cell	
7.	Define SSI, MSI, LSI and VLSI.	(d) 5
	이 경기를 하면 보이지 않는데 경영화의 이번 등에 남자가 되다.	
8.	Explain the term photo-emissive, photo-conductive and photo-voltaic effect.	5
9.	List the applications and advantages of LED.	5
	1 of 2	urn over

Write a note on solar cell.

Write the advantages of Opto-couplers.

19.

(a)

1190