P.T.O.

B. Tech. 3rd Semester (AEIE) F.Scheme Examination, December-2014

ELECTRONIC DEVICES AND CIRCUITS

Paper-EE-201-F

Time	allov	ved: 3 hours]	[Maximum marks :	100
Note	wl of	hich is compulsor	attempt first common ques ry and one question from e ng sections. All questions co	each
1.	(i) (ii)	ain the following: Drift velocity Mean free path P-N junction MESFET IGBT		5×4
		Sec	tion–A	
2.	Define super conductivity. Also discuss in brief aboractors affecting conductivity of materials.			bout 10
3.	State	e and explain Wied	emann-Franz Law.	10
		Sec	tion-B	
4.	Con (i) (ii)		g: 7 diffusion current nsition capacitance	7,6,7

(iii) Zener breakdown and Avalanche breakdown.

24024-P-2-Q-9-(14)

7,6,7				
•				
king of				
15				
5				
Draw and explain Input and Output characteristics of BJT				
20				
Discuss in brief about construction, working and application of following devices				
10,10				
Write short notes on				
7,6,7				