Hall Ticket Number :														[
Code: 1G334												R-11 / R-	13		
II B.Tech. I Semester Supplementary Examinations October 2020															
	Electronic Devices and Circuits														
Ma	(Common to CSE & IT) Max. Marks: 70 Time: 3 Hours														ours
11100					Ansv	ver o	any f	ive	ques	stion	S				0010
All Questions carry equal marks (14 Marks each)															
1.	a)	Distinguish be	etwee	en Ze	ner E	Break	dow	n and	d Ava	lanc	he Br	eak	down	l.	7M
	b)	Draw the Zener diode V-I characteristics. Explain how Zener diode provides a constant output voltage.													7M
2.	a)	Develop Centre tapped full wave rectifier with its operation 7													
	b)	Write short no	-	•											7M
2															
3.	a) b)		• •	•								jram.			7M
	b)	Write short notes on i) DC Load line ii) Operating point												7M	
4.	a)	Write short notes on i) Thermal resistance ii) Heat sink.										7M			
	b)	What are the	adva	ntage	es of	self-l	oias c	over f	ixed	bias	?				7M
5.	a)	With a neat mode.	sket	ch e	xplair	n the	e cha	racte	eristic	s of	MO	SFET	Г in	enhancement	7M
	b)	Explain the co	onstru	uctior	nal de	etails	of JF	ET.							7M
6.	a)	Draw and exp	olain d	class	А ро	wera	ampli	fier							7M
	b)	Compare the	clas	s A a	nd cl	ass E	3 Pov	ver a	mplifi	ers					7M
7.	a)	How does neg	native		ano f	aadh	ack i	ncro	2000	R \//					7M
7.	a) b)	Express the e	-		•						on cu	rrent	sorie	20	
	5)						•						. 36110		7M
8.	a)	Explain with a			•			•		•		lator			7M
	b)	show that colp	oitts o	oscilla	ator c	ircuit	and	discu	uss b	riefly					7M
