(90)

SE Elactrical 11 C 15 G P Code: 14538 20-11 (3Hours) QP Code: 14538 20-11-

N.	B.:	(1) Questions Q.l is compulsory.	
		(2) Attempt any 3 questions from remaining questions.	1
		(3) Assumed suitable data when necessary.	
1.	(2)	What is Schottky diode?	
1.		What is Thermal runway?	5
		What is Thermal Stabilization?	-5
		Explain need of biasing in BJT) 5
	(4)	Explain field of blasing in BJ1	3
2.	(a)	Draw and explain N-channel FET with the help of suitable diagram and equations	10
	(b)	Derive the expression for voltage gain, current gain, input impedance and	10
		output impedance of CE amplifier.	10
3.	(a)	Explain RC phase shift oscillator with the help of suitable diagram and	10
	(L)	equations.	
	(0)	Explain UJT relaxation oscillator with the help of suitable diagram and equations.	10
4.	(a)	Draw and evaluin double anded and but	
	(4)	Draw and explain double ended and balanced output differential amplifier with the help of suitable equations.	10
	(b)	Explain the effects of coupling on performance of BJT.	
		of coupling of performance of D.J.	10
5	(a)	What is feedback amplifier? Name different types and explain any one of them.	10
	(b)	Draw and explain N-channel Enhancement MOSFET with the help of suitable	
		diagram and equation	10
5.	(a)	Write a short note on any TWO.	
	N. N.	(i) Full wave bridge rectifier.	20
		(ii) LED	
		(iii) Darlington pair.	