



Internal Assesment Test - II

Sub:	ANALOG ELECTRONIC CIRCUITS Code							e:	: 18EE34		
Date:	5/11/2020	Duration:	90 mins	Max Marks:	50	Sem:	3rd	Bran	ch:	EEF	Ξ
		A	nswer Any	FIVE FULL	Question	ıs					
								Marks	OF	BE	
1 hr	S C' 1	1 1	• 1	. 1	1.1	C CE	00	1 CD		CO	RBT
	Define h parameter and configurations. Also we		_	_	model	of CE,	CC ar	ia CB	10	CO2	L4
2. F	For the Emitter Follow	er circuit sho	wn below,	determine the f	following	g:			10	CO2	L4
	$a) r_e b) \; Z_i c) \; Z_o$	d) A _v and e)	A _I Take	$\beta = 90$ and $r_o =$	= ∞						
		$\begin{array}{c} 100 \text{ k}\Omega \\ \downarrow \downarrow \downarrow \downarrow \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \\ \downarrow \downarrow$	20 V	W4 kΩ 2 / 0	V _o						
	A transistor in CE monage = $20 \mu A / V$. Determ				x = 2 x	10 ⁻⁴ , h _{fe}	= 100) and	10	CO2	L4
A	Draw the circuit diagra AC equivalent r _e mode voltage gain and curren	el. Derive the							10	CO2	L4
	Derive equations for appropriate diagrams.	Miller Inpu	t Capacita	ance and Mill	er outp	ıt capad	citance	with	10	CO2	L4
6.	State and prove Miller	rs Theorem.							10	CO2	L4
e	What are the advanta equations between the configuration.									CO2	L4