

SRM (College of Engineering and Technology College of Engineering and Technology DUPARTMENT OF ECK 1881 Super States (1998) Comprision Dates Trans

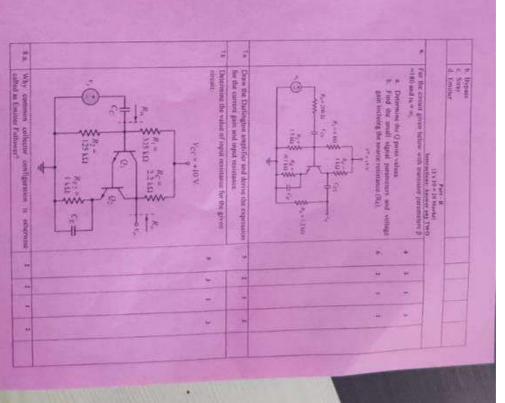
Accelerate Year SELECTED SERVICES

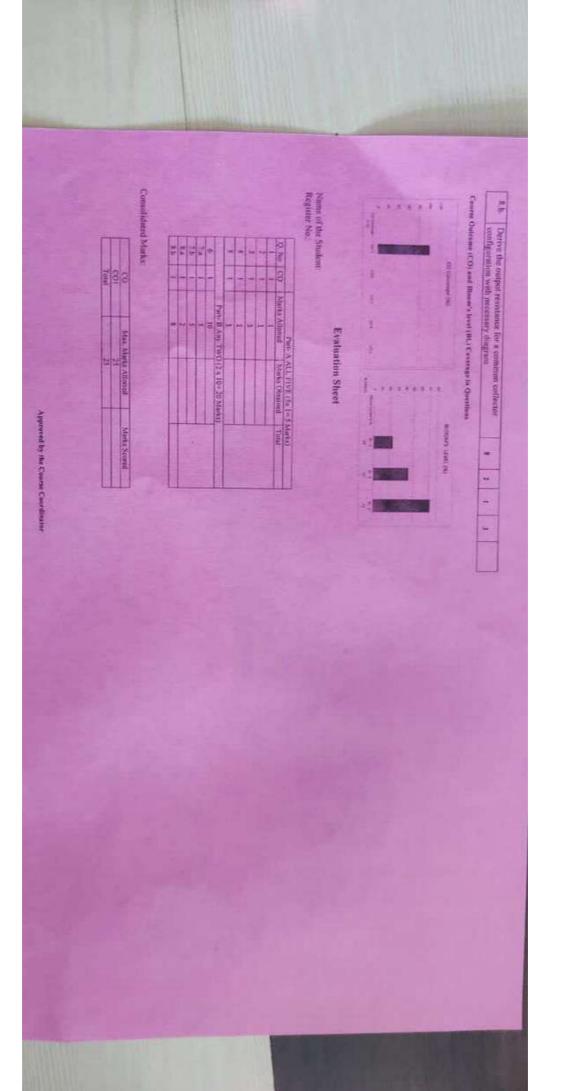
Course Code & Falls 1820/C2913 - Assing Biotespiel Courses

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Test: CLAT- II Course Code & Title: 18ECC20IJ - Analog Electronic Circuits Year & Sem: II/IV

Date: 24-05-2022 Duration: 2 Periods Max. Marks: 50

Course /	Articulation	Matrix:

	18ECC201J. Analog Electronic Circuits					Grad	Peop	AND O	wit r tues	** (*	OW	-	E P		-	
	Course Outcomes (COs)	120	245	3 1	5411	COUNT	1450			5 5	10.1	III CHI	-	-	12	
20.1	Analyze baselor amplifier currents and their ti expensely evaporate	BE	2	2	119	200	(22)	(1227)	2500							
0.2	Develop MOSFET amplifies circules and their frequency response	33	(5)	131			E			西	-					
2000	Compile various regame freethank suspiries and oscillator carnets	100	Tradition	7	100	1	1	1/8	100	1000	1					Ē
)-4	Demonstrate the different classes of power amplifiers according to their serformence characteristics.	010	230	The second	15 YE YE	16	糧	13	-	1 3	1					
.5 0	Construct the basic circuit building blocks that are used in the deplet of	671			12.5	100	100	N US	100	100	1		1	1 80		M
-6 C	Congulators, namely covered merces and sources bypanire analog electronic circuits using discrete components to	Relia.	0000	200		150	125	III III	1 75		1	1	12	1	1 E	A
170	canne various analog circuits' performance	755	1000	103	183	3 (33)	100		2015	31 102	0 2	4		100		

Q.	(10*1=10 Marks)	Marks	BL	CO	PO	1
1	$V_{\text{DD}}$ $R_{\text{D}} = 10 \text{ k}\Omega$ $V_{\text{e}}$ $R_{\text{S}}$ $= 6 \text{ k}\Omega$ $-V_{\text{SS}}$		2	2	2	
	The amplifier in the figure shown is biased to operate $I_D = 1 \text{mA}$ and $g_m = 1 \text{mA/V}$ . Find the midband gain.	at				
	a. 0.43 V/V b. 1.43 V/V c. 2.43 V/V d. 3.43 V/V					
	Thermal runaway is not possible in FET because as temperature increases  a. mobility decreases b. transconductance increases c. drain current increases d. mobility increases	the	1	1	2	

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		2	100		When the desensitivity factor increases, the stability of the amplither
- 10	1	E	1	1	pudit John A
	- 1			1	c. Periodic signal
					a. Veedback signal b. Error Signal
					called
-	2	£	z	1	is a signal which is amplified to produce output signal is
	1			Land I	d. Both Coupling capacitor and load capacitor open circuit
7	- 1				capacitor short circuit
1	- 1				c. Both Coupling capacitor and load
1	1				capacitor short circuit
1					capacitot open circuit  b. Coupling capacitot open circuit and load
	- 1	- 1			a. Coupling capacitor short circuit and load
1					the state of the s
133	-				Burunsse
1	-	2	7	1	5 The midband gain of an amplifier can be calculated by
	1		- 1		d. Common Source
			- 1		c. Common Gate
	1	- 1			р. Соштоп Drain
			-		a. Common Substrate
	1	1			
	1	- 1			Impedance?
7	2	-	I	1	4 Which MOSFET amplifier circuit has low input
	1		-		dgmR, /(1+gmtn)
	-	-1-	-		(-2 p+0)/ g p- h
		1	1	75- 4	c£mB() \((1+EmBs)
1		1	1		p. gar
			do		8. Emid
1		-	1		HERALASA MELLO
		1	116	54	amplifier.
					Choose the voltage gain of Common Source (CS)